THERMO-ANEMOMETERS

45118

45158

NEW

45118/45158
Mini Thermo-Anemometers

3-in-1 or 5-in 1 meter

- Measure air velocity, temperature, and windchill
- Adjustable averaging function of 5, 10, or 13 second intervals
- Housing extends to 9" (229mm)
- Tripod mount (optional TR100 Tripod — sold separately)
- Data Hold with Auto power off
- Replaceable low friction vane
- Water resistant housing floats
- Complete with CR2032 lithium battery and 43" (1.09m) lanyard

45158 Additional Features
- Measures %RH and Dew Point

45168CP
Mini Thermo-Anemometer with Built-in Compass

7-in-1 meter

- Built-in Compass provides wind direction and 360° readings
- Delta T (Air Temperature - DP)
- Max function
- Housing extends to 9" (229mm)
- Auto Power Off with disable
- Water resistant housing floats and drop-tested to 6 feet
- Replaceable vane (45156)
- Tripod mount
- Complete with CR2032 lithium battery and lanyard

Go Beyond Airflow Measurements

Extech's compact multi-function environmental meters couple all-in-one versatility with accurate diagnostics. Extech helps you get results with fewer tools.

ACCESSORIES

45116	Mini Impeller (2pk) for 45118
45156	Mini Impeller (2pk) for 45158 and 45168CP
EN100-TP	RTD Temperature probe 14 to 158°F/-10 to 70°C
EN100-V	Mini impeller (2 pk) for EN100 and EN150
TR100	Tripod
CA895	Small Vinyl Pouch Case for 45118, 45158, 45168
UA100-240	100-240V AC Adaptor w/ 4 plugs (US, EU, UK, AU)

Using optional tripod TR100

SPECIFICATIONS	■ 45118 ▮ ▲ 45158	45168CP
ft/min (res.)	100 to 5500 (20)	60 to 3937 (2)
m/s (res.)	0.5 to 28 (0.1)	1.1 to 20 (0.1)
km/h (res.)	1.8 to 100.6 (0.7)	0.8 to 72.0 (0.1)
MPH (res.)	1.1 to 62.5 (0.2)	0.5 to 44.7 (0.1)
knots (res.)	1.0 to 54.3 (0.3)	0.4 to 38.8 (0.1)
Beaufort Force (res.)	1 to 17 (1)	1 to 8 (1)
Air Volume CFM/CMM	—	—
Temperature	0 to 122°F/ -18 to 50°C (0.1°)	5 to 122°F/ -15 to 50°C (0.1°)
Relative Humidity (res.)	■ No ▮ ▲ 10% to 95% (1%)	0.1% to 99.9% (0.1%)
Heat Index	—	
Wet Bulb	—	23°F to 122°F (-5 to 50°C)
Dew Point	■ No ▮ ▲ 32 to 122°F (0 to 50°C)	-4°F to 122°F (-20 to 50°C)
Light Level	—	—
UV Level	—	—
Sound Level (res.) - A weighting	—	—
Basic Accuracy		
Airflow	±3% of reading	±3% FS
Temperature/Relative Humidity	■ ±1.8°F, ±1°C ▮ ▲ ±1.8°F, ±1°C/±5%RH	±1.8°F, ±1°C/ ±3%RH
Light/Sound	—	—
CE approved	Yes	Yes
Dimensions/Weight	5.25x2.75x0.75" (133x70x19mm)/ 3oz (95g)	5.51x1.77x0.98" (140x45x25mm) / 3oz (95g)
	Vane: 1" (26mm)D	Vane: 1" (25.4mm)D
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.*

EN100   EN150

45170   45170CM

NEW

Auto-rotating
display

EN100/EN150
Environmental Meters with UV*

11-in-1 meters

- Replaceable low friction vane
- Barometric Pressure and Altitude functions
- Data Hold and Auto power off
- Complete with built-in sensors, wrist strap, and CR2032 battery. (Optional EN100-TP probe measures to 158°F/70°C)

EN100 Additional Features
- Measures light level with Auto-rotating display

***EN150 Additional Features**
- Measures UV light level

45170/45170CM
Environmental Meters

4-in-1 or 5-in-1 meter

- Auto-rotating display
- Low friction vane wheel
- Capacitance humidity sensor
- Type K input (Probe sold separately - see p. 41 and 70)
- Utilizes precision photo diode and correction filter
- MAX/MIN and Data hold
- Complete with wrist strap and 9V battery
- **Model 45170CM** also measures Air Flow (CFM/CMM)

EN300
Environmental Meter

5-in-1 Meter & PC interface

- Auto-rotating display
- Low friction vane wheel
- Capacitance humidity sensor
- Thermistor for ambient temperature and Type K input (Probe sold separately - see p. 41 and 70)
- Utilizes precision photo diode and correction filter
- Sound Level measurement meets IEC 61672 class 2
- MAX/MIN and Data hold
- Complete with 6 AAA batteries; Optional AC adaptor UA100-240 & software 407001

■ EN100 | ▲ EN150	■ 45170 | ▲ 45170CM	EN300	SPECIFICATIONS
80 to 3940 (1)	80 to 5910 (1)	80 to 5910 (1)	ft/min (res.)
0.4 to 20 (0.1)	0.4 to 30 (0.1)	0.4 to 30 (0.1)	m/s (res.)
1.4 to 72 (0.1)	1.4 to 108.0 (0.1)	1.4 to 108.0 (0.1)	km/h (res.)
0.9 to 45 (0.1)	0.9 to 67.0 (0.1)	0.9 to 67.0 (0.1)	MPH (res.)
0.8 to 38.8 (0.1)	0.8 to 58.3 (0.1)	0.8 to 58.3 (0.1)	knots (res.)
—	—	—	Beaufort Force (res.)
0.847 to 1,271,300CFM/0.024 to 36,000CMM	0.01 to 1,908,400CFM/0.001 to 54,000CMM	—	Air Volume (CFM/CMM)
32 to 122°F (0 to 50°C)/15 to 111°F (-9 to 44°C)	Thermistor: 32 to 122°F/ 0 to 50°C (0.1°) Type K: -148°F to 2372°F/-100°C to 1300°C	32 to 122°F/ 0 to 50°C (0.1°)	Temperature
10 to 95% (0.1%)	10 to 95% (0.1%)	10 to 95% (0.1%)	Relative Humidity (res.)
32 to 212°F (0 to 100°C)	—	—	Heat Index
22.3 to 120.2°F (-5.4 to 49.0°C)	—	—	Wet Bulb
-13.5 to 120.2°F (-25.3 to 49.0°C)	—	—	Dew Point
■ 0 to 1860Fc (0 to 20,000Lux) | ▲ No	0 to 1860 (0.1Fc)/0 to 20,000 (1Lux)	0 to 1860 (0.1Fc)/ 0 to 20,000 (1Lux)	Light Level
■ No | ▲ 0 to 1999μW/cm² (2 to 20mW/cm²)	—	—	UV Level
—	—	35 to 130dB (0.1dB)	Sound Level (res) - A weighting
			Basic Accuracy
±3% FS	±3% FS	±3% FS	Airflow
±2.5°F, ±1.2°C/±4%RH	±2.5°F, ±1.2°C/±4%RH	±2.5°F, ±1.2°C/±4%RH	Temperature/Relative Humidity
■ No | ▲ Light: ±5% of reading	Light: ±5% of reading	Light: ±5% of reading/ Sound: ±1.4dB	Light/Sound
Yes	Yes	Yes	CE approved
6.1x2.4x1.3" (156x60x33mm)/ 5oz (160g)	6.1x2.4x1.3" (156x60x33mm)/ 5oz (160g)	6.1x2.4x1.3" (156x60x33mm)/ 5oz (160g)	Dimensions/Weight
Vane: 1.2" (30.5mm)D	Vane: 1.2" (30.5mm)D	Vane: 1.2" (30.5mm)D	
1 year	1 year	1 year	Warranty

THERMO- ANEMOMETERS

AN100/AN200
CFM/CMM Thermo-Anemometers

Large backlit display of Airflow or Air Velocity plus model with built-in InfraRed Thermometer

- Simultaneous display of Ambient Temperature and Air Flow or Air Velocity
- Up to 8 easy to set Area dimensions stored in internal memory (ft² or m²)
- 20 point AVG for Air Flow
- Low friction 2.83"D (72mm) ball bearing vane wheel
- Data Hold, MIN/MAX, Auto off
- Complete with vane sensor on 3.9ft (120cm) cable, 9V battery, protective rubber holster, and case
- **Model AN200** incorporates a built-in IR Thermometer for quick non-contact temperature measurements

Versatile and Durable Tools For HVAC/R

Extech equips HVAC/R professionals with rugged, accurate tools for measuring airflow, air velocity and air/surface temperatures. Extech's thermo-anemometers are available with vane/propeller probes as well as telescoping, hot-wire probes for small openings or hard-to-reach areas.

Watch the Video
www.extech.com/video

AN200 only.

SPECIFICATIONS	■ AN100 Ⓝ	▲ AN200 Ⓝ
Air Velocity (Max Res.)	
ft/min	80 to 5900 (1)
m/sec	0.4 to 30.00 (0.01)
km/h	1.4 to 108.0 (0.1)
MPH	0.9 to 67.0 (0.1)
knots	0.8 to 58.0 (0.1)
Temperature (Max Res.)	14 to 140°F/ -10 to 60°C (0.1°)
Temperature (IR)	■ No | ▲ -58 to 500°F/ -50 to 260°C (0.1°/1°)
Air Flow (CFM = ft³/min)	■ 0 to 9999CFM (1) | ▲ 0 to 999,999CFM (0.1)
Air Flow (CMM = m³/min)	■ 0 to 9999CMM (1) | ▲ 0 to 999,999CMM (0.1)
Basic Accuracy	±3%rdg; ±2°F (±1°C)
PC Interface	—
Datalogger	—
CE approved	Yes
Dimensions/Weight	7x2.9x1.3" (178x74x33mm)/1.6lbs (700g)
Warranty	1 year

Ⓝ *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

HD300 CFM/CMM Thermo-Anemometer + IR Thermometer

Built-in IR Thermometer for quick troubleshooting of ceiling vents, duct work, and other remote surfaces

- IR Thermometer has 30:1 distance to target ratio and Laser pointer
- Simultaneous display of Air Flow in CFM/CMM or Air Velocity Plus Ambient Temperature
- Up to 8 easy to set Area dimensions stored in memory
- Large backlit LCD
- Air Flow displayed in 2 modes as an instantaneous value or up to 20 point average
- USB port includes PC software
- Includes PC software, cable, vane sensor on 3.9ft (120cm) cable, built-in stand, case, and 9V battery

407113 High Temperature CFM Metal Vane Anemometer

Withstands temperatures to 175°F (80°C) and airspeed to 6890ft/min

- Display Air Flow (CFM) or Air Velocity plus Temperature
- Air Flow displayed in 3 modes: Instantaneous value, Up to 20 point average, or 2/3 flow value
- Record and Recall MIN/MAX
- Data Hold plus Auto power off
- Built-in PC Interface
- Optional Data Acquisition software 407001 - see details on p. 114
- Includes metal vane sensor with 3.9ft (120cm) cable, 9V battery, holster with stand, and hard case; Optional 117V (156119) or 220V (156221) AC adaptors (see p. 136 for ordering).

407119 Hot Wire CFM/ CMM Anemometer

Accurately measures Air Flow (CFM/ CMM) or Air velocity plus Temperature

- Air velocity measurements as low as 40ft/min
- Telescoping probe extends up to 3ft (940mm) long
- Measures air volume in CFM (ft^3/min) and CMM (m^3/min) plus Temperature simultaneously
- Air Flow displayed in 2 modes as an instantaneous value or up to 20 point average
- Record and Recall MIN/MAX
- Data Hold plus Auto power off
- Optional Data Acquisition software 407001 - see details on p. 114
- Complete with telescoping probe with 5.5ft (167.6cm) cable, and four AA batteries

HD300 N	407113 N	407119 N
80 to 5900 (1)	100 to 6890 (1)	40 to 3346 (1)
0.4 to 30.00 (0.01)	0.5 to 35 (0.1)	0.2 to 17 (0.1)
1.4 to 108.0 (0.1)	1.8 to 126.0 (0.1)	0.7 to 61.2 (0.1)
0.9 to 67 (0.1)	1.1 to 78.3 (0.1)	0.9 to 38.0 (0.1)
0.8 to 58.0 (0.1)	1.0 to 68.0 (0.1)	0.4 to 33.0 (0.1)
14 to 140°F/-10 to 60°C (0.1°)	32 to 175°F (0.1°)/ 0 to 80°C (0.1°)	32 to 122°F (0.1°)/ 0 to 50°C (0.1°)
-58 to 932°F/-50 to 500°C (0.1°/1°)	—	—
0 to 999,900CFM (0.001)	0 to 999,900CFM (0.001)	0 to 1,271,200CFM (0.001)
0 to 999,900CMM (0.001)	0 to 999,900CMM (0.001)	0 to 36,000CFM (0.001)
±3%rdg; ±4°F (2°C)	±2%rdg; ±1.5°F (±0.8°C)	±2%rdg; ±1.5°F (±0.8°C)
Yes	Optional 407001 Software (see p. 114)	Optional 407001 Software (see p. 114)
Directly to PC using software	—	—
Yes	Yes	Yes
8x3x1.9" (203x75x50mm)/12.2oz (350g)	7x2.9x1.3" (178x74x33mm)/1.35lbs (612g)	7x2.9x1.3" (178x74x32mm)/1.1lbs (482g)
3 years	3 years	3 years

SDL300/SDL310/SDL350 Thermo-Anemometer/Dataloggers

SDL310

SDL350

SDL300

All SDL models have built-in SD slot and includes SD memory card

Three models to choose from with different sensor size and design to either withstand high temperature environment or measure low level air velocity

- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 1 to 3600 seconds (1 hour)
- Manually store/recall up to 99 readings
- Type K/J Thermocouple input for high temperature measurements
- Large (9999 count) LCD displays Air Velocity and Temperature simultaneously
- Record/Recall MIN, MAX readings
- Data Hold plus Auto power off with disable function
- Complete with 6 x AA batteries, SD card, sensor with 3.9ft (120cm) cable, and hard carrying case; (See for optional Type K and J Thermocouple probes); 3 year warranty

SDL300 Metal Vane Additional Functions
- 2% velocity accuracy via low friction ball bearing vane wheel on 39" (1m) cable
- Metal Vane withstands temperatures to 158°F (70°C) and air velocity to 6900ft/min

SDL310 Vane Additional Functions
- 2% velocity accuracy via low friction ball bearing vane wheel on 39" (1m) cable
- Measures Air Temperature to 122°F (50°C) and air velocity to 4930ft/min

SDL350 Hot Wire Additional Functions
- Air Velocity meter with telescoping probe designed to fit into HVAC ducts and other small openings and can read down to 40ft/min
- Probe extends up to 7.05ft (215cm) maximum length with cable

SPECIFICATIONS	SDL300	SDL310	SDL350
ft/min	60 to 6900ft/min	80 to 4930ft/min	40 to 3940ft/min
m/sec	0.3 to 35m/s	0.4 to 25m/s	0.2 to 25m/s
km/h	1.0 to 126.0km/h	1.4 to 90.0km/h	0.7 to 72km/h
MPH	0.7 to 78.2MPH	0.9 to 55.9MPH	0.5 to 45MPH
knots	0.6 to 68knots	0.8 to 48.6knots	1 to 31knots
Air Flow (CFM = ft³/min)	—	—	0 to 1,907,000CFM
Air Flow (CMM = m³/min)	—	—	0 to 54,000CMM
Basic Accuracy	2%rdg	2%rdg	5%rdg
Temperature (air)	32 to 158°F (0 to 70°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)
Common Features			
Temperature (Type J/K)	J: -148 to 2192°F (-100 to 1200°C)/K: -148 to 2372°F (-100 to 1300°C)		
Datalogging	Store readings on SD memory card (included)		
Dimensions/Weight	7.2x2.9x1.9" (182X73X48mm)/17.2oz (487g)		

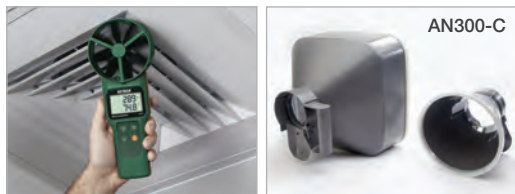| ORDERING	
SDL300 N	Metal Vane Thermo-Anemometer/Datalogger
SDL310 N	Vane Thermo-Anemometer/Datalogger
SDL350 N	Hot Wire CFM/CMM Thermo-Anemometer/Datalogger
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)

Vane Versus Hot Wire

Which sensor type should you choose? For many technicians, it is ultimately a matter of preference but there are some distinguishing factors to keep in mind. Vane anemometers are very useful for fast, accurate measurements of air velocity. The ultra compact size of a hot wire anemometer probe makes it easy to access small openings such as louvered vents. Telescoping hot wire probes are also useful for reaching high locations.

CALIBRATION TRACEABLE TO NIST

N Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.

AN300/AN310/AN320 Large Vane CFM/CMM Thermo-Anemometers + CO$_2$*

4" (10cm) large vane allows for more precise readings on larger size ducts; choose models that also measure Air Volume, Humidity & Carbon Dioxide
- Fast responding sensors measure Air Velocity and Air Flow
- Built-in thermistor for air temperature
- Multipoint and timed average calculations
- Min/Max, Data Hold, and Auto power off
- Optional Air Flow Cone Kit (AN300-C) allows HVAC technicians to be freed from the hassle of calculating dimensions and allow for quick and easy airflow measurments for these common duct sizes; Adaptor size: Round 8.26" (210mm) and Square 13.6" (346mm)
- Complete with four AAA batteries and hard case; 1 year warranty

AN310 Additional Functions:
- Measures Relative Humidity, Wet Bulb and Dew Point

*AN320 Additional Functions:
- Measures Relative Humidity, Wet Bulb and Dew Point
- Carbon Dioxide (CO$_2$) measurement

AN300

AN310

AN320

AN300-C

SPECIFICATIONS	AN300	AN310	AN320
m/s	0.2 to 30m/s	0.2 to 30m/s	0.2 to 30m/s
ft/min	40 to 5900ft/min	40 to 5900ft/min	40 to 5900ft/min
Basic Accuracy	±1.5%	±1.5%	±1.5%
CFM/CMM	0 to 99999	0 to 99999	0 to 99999
Temperature	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)
Basic Accuracy	± (0.6°C)	± (0.6°C)	± (0.6°C)
Humidity	—	0.1 to 99.9%RH	0.1 to 99.9%RH
Basic Accuracy	—	±3%RH	±3%RH
Wet Bulb	—	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)
Dew Point	—	23 to 140°F (-5 to 60°C)	23 to 140°F (-5 to 60°C)
Carbon Dioxide (CO$_2$)	—	—	0 to 9999ppm
Dimensions/ Weight	10.6x4.2x2" (269x106x51mm) / 7oz (200g)		

ORDERING	
AN300 **N**	Large Vane CFM/CMM Thermo–Anemometer
AN310 **N**	Large Vane CFM/CMM Anemometer/Psychrometer
AN320 **N**	Large Vane CFM/CMM Anemometer /Psychrometer + CO$_2$
AN300-C	Airflow Cone and Funnel Adapters

AN340 CMM/CFM Anemometer/ Psychrometer Datalogger

Telescoping probe with 18mm diameter mini vane sensor easily fits into air vents and can extend length of probe to 3.3ft (1m) long
- Measures Air Velocity, Air Flow, Air Temperature, Humidity, Dew Point and Wet Bulb with built-in Automatic Temperature Compensation (ATC)
- Manually store/recall up to 99 readings and automatically datalog up to 12000 readings (2000 readings for each parameter) with 12/24 hour time and date stamp
- Select data sampling rate from 1s to 4hr: 59 min: 59s
- Min/Max/Avg, Data hold, and Auto power off with disable
- Built-in PC interface
- Complete with external mini vane probe, Windows® compatible software, USB cable, 6 AAA batteries, and hard carrying case; 1 year warranty

SPECIFICATIONS		
m/s	0.5 to 20m/s	±3%
ft/min	100 to 3940ft/min	±3%
Temperature	-4 to 140°F (-20 to 60°C)	±1.1°F (0.6°C)
Humidity	0.1 to 99.9%RH	±3%RH
Wet Bulb	-4 to 158°F (-20 to 70°C)	
Dew Point	-4 to 140°F (-20 to 60°C)	
CFM/CMM	0 to 99999	

ORDERING	
AN340 **N**	Mini Vane CMM/CFM Anemometer/ Psychrometer Datalogger

VPC300 Certified Video Particle Counter with built-in Camera

Unique built-in camera for capturing videos and photos that are stored onto internal memory or a microSD card (not included)

- Simultaneously measure and display 6 channels of particle sizes (down to 0.3 μm), Air Temperature, Humidity, Dew Point and Wet Bulb
- 2.8" TFT Color LCD display
- Built-in 320x240-pixel camera takes videos (3GP) and photo images (JPEG) and records them in internal 74MB memory
- Internal memory stores 5000 records (date, time, counts, humidity, temperature, sample volumes, and location label) and 20 minutes of video
- Selectable sample time, count data, and programmable delay
- Max, Min, DIF, AVG record, Date/time setup controls
- Auto Power Off
- Language selection: English, French, German, Spanish
- Meter is NIST calibrated
- Tripod mount for continuous recording
- Mini-USB port connection
- microSD card slot in battery compartment (memory card not included; max size 8GB)
- Complete with NIST-traceable calibration certificate, Universal AC Adapter/Charger with multiple plugs, USB cable, PC software, tripod, filter, 7.4V NiMH battery and hard case; 1 year warranty

SPECIFICATIONS

Particle Size Channels	0.3, 0.5, 1.0, 2.5, 5.0, 10μm
Flow Rate	0.1ft3 (2.83L/min) controlled by internal pump
Count Modes	Cumulative, Differential, Concentration
Counting Effeciency	50% @ 0.3μm; 100% for particles>0.45
Coincidence Loss	5% @ 2,000,000 particles per ft3
Air Temperature	-14 to 140°F (-25 to 60ºC); Accuracy:±2°F/1°C
Relative Humidity	0 to 100%RH; Accuracy:±3%RH (40% to 60%RH)
Dew Point/ Wet Bulb	32 to 122°F (0 to 50ºC)
Dimensions/Weight	9.4 x 3 x 2.2" (240 x 75 x 57mm)/1.26lbs (570g)

ORDERING

VPC300	Video Particle Counter
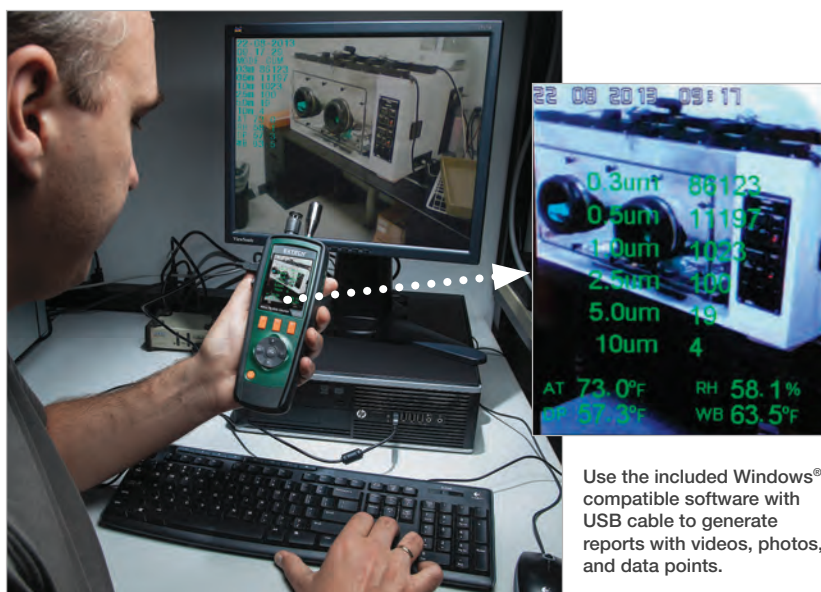
Use the included Windows® compatible software with USB cable to generate reports with videos, photos, and data points.

EXTECH INSTRUMENTS

RD300 Refrigerant Leakage Detector

Ideal for detecting leakages from air-conditioning units and cooling systems that use all standard refrigerants
- Detects all standard refrigerants using a heated diode sensor
- LED light at probe tip (with on/off switch) for working in dimly lit areas
- LEDs display user-selectable High/Medium/Low levels with sensitivity of 0.25/0.50/0.99 oz per year
- Audible and Visual alert with mute button; Low battery indicator
- Field replaceable sensor (SD300-S) and LED light tip (RD300-L)
- Dimensions: 7.2x2.8x1.6" (184x70x40mm); Weight: 10oz (280g)
- Complete with sensor tip and LED light, leak test bottle, 9V battery, and hard case; 1yr warranty

ORDERING	
RD300	Refrigerant Leakage Detector
RD300-S	Replacement Heated Diode Sensor Tip
RD300-L	Replacement LED Light Tip

RD300-S   RD300-L

EZ40 EzFlex™ Combustible Gas Detector

Quickly Identifies and Pinpoints gas leaks
- 16" (406mm) gooseneck for easy access into hard to reach locations
- High Sensitivity
- One hand operation with thumb controlled sensitivity adjustment, to eliminate background gas levels
- Visible and audible alarm at 10% (LEL) Lower Explosive Limit for methane
- Locate the smallest leaks
- Complete with 3 "C" batteries; 1 year warranty

SPECIFICATIONS	
Pump driven field calibration range	10ppm
Sensor type	Solid State
Alarm	Visible and Audible @ 10% LEL for Methane
Warm-up	Approx. 1 minute
Response Time	< 2 seconds (up to 40% LEL)
Duty Cycle	Intermittent
Battery life	8 hours continuous use typical
Dimensions/ Weight	8.7 x 2.83 x 1.8" (221 x 72 x 46mm)/ 18.4oz (520g)

ORDERING	
EZ40	ExFlex™ Combustible Gas Detector

Watch the *Video*
www.extech.com/video

FG100 Combustible Gas Leak Detector

Fast response detection of flammable gas leakage
- Detects flammable gases: LNG - Liquefied Natural Gas (1000 to 6500ppm) and LPG - Liquefied Propane Gas (500 to 6500ppm)
- Highly sensitive detection circuitry with audible and visual alarm
- LED indicators for gas leakage and static discharge
- Continuous operation up to 4 hours
- Dimensions/ Weight: 6.5 x 0.8" (164mm x 21mm)/0.9oz (25g)
- Complete with pocket clip and two AAA batteries; 1 year warranty

ORDERING	
FG100	Combustible Gas Leak Detector

CO10 Carbon Monoxide (CO) Meter

Watch the **Video**
www.extech.com/video

Includes 9V battery, protective holster, and case; 1 year warranty

Check CO level in all environments up to 1000ppm
- Auto Zero at start up
- Displays CO levels from 0 to 1000ppm
- 1ppm resolution with ±5% or ±10ppm basic accuracy (whichever is greater)
- Utilizes a stabilized electrochemical gas specific (CO) fast response sensor
- Audible alarm starts at 35ppm
- Memory stores 10 readings
- Ergonomic pocket size housing
- Max Hold, Data hold buttons, and Auto Power off features
- Dimensions/Weight: 6.3x2.2x1.57" (160x56x40mm)/6.35oz (180g)

ORDERING

CO10	Carbon Monoxide Meter

CO30 Carbon Monoxide (CO) Monitor

NEW

Includes built-in stand, side cover, Universal AC Adaptor (multi-plugs US, EU, UK, and AU), and 4 AAA batteries; 1 year warranty

Programmable audible alarm, with high decibel beeper
- Wall mount or desktop monitor alternately displays Carbon Monoxide (CO) concentration, Air Temperature, and Relative Humidity readings
- Bright tri-colored LED indicator: Green <10ppm, Yellow = 10 to 29ppm, Red >30ppm
- LCD displays alarm icon, LED light turns red, and loud audible beeper sounds when indoor CO level exceeds set point (adjustable)
- Adjustable audible alarm sounds when reading exceeds one of the selected ranges
- "ZERO" Re-Calibration function
- Manual Temperature and Relative Humidity Compensation (adjustable)
- CO Calibration function in fresh air
- Four display error codes for troubleshooting and Low battery indicator
- Recover to factory setting function

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Monoxide (CO)	0 to 999ppm	1ppm	±5% of rdg or ±10ppm
Temperature (Air)	32 to 122°F (0 to 50°C)	0.1°F/°C	±2°F/1°C
Relative Humidity	20 to 90%RH	1%RH	±5%RH @ 25°C
Dimensions/Wt	4.4x4.3x2.1" (113x108x53mm)/ 5.6oz (159g)		

ORDERING

CO30	Carbon Monoxide CO Monitor

CO50 Desktop Carbon Monoxide (CO) Monitor

Measures Carbon Monoxide (CO) concentration, Air Temperature & Humidity with extra loud beeping alarm (>85dB sound level at 3 meters away)
- Visibly bright LED (green & red) indicates indoor CO warning level
- Extra loud audible beeping alarm level meets UL2013 Standard (>85dB @ 3 meters); defaults alarm threshold at 30ppm CO level (user adjustable)
- Displays Date (Year, Month, Day) and time; Max function for CO readings
- Internal memory for manually storing up to 99 readings with easy recall function
- 1 year warranty
- Complete with Universal AC adapter (UA100-240) and multiple plug types

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Monoxide (CO)	0 to 999ppm	1ppm	±2ppm
Temperature (Air)	14 to 140°F (-10 to 60°C)	0.1°F/°C	±1.2°F/0.6°C
Relative Humidity	10 to 90%RH	0.1%RH	±5%RH @ 25°C
Dimensions/Wt	6.1 x 3.4 x 3.2" (155 x 87 x 81mm)/ 5.8oz (165g)		

ORDERING

CO50	Desktop Carbon Monoxide CO Monitor

CALIBRATION
TRACEABLE TO **NIST**

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

CO100 Desktop Indoor Air Quality CO_2 Monitor

Measures Carbon Dioxide (CO_2), Air Temperature and Humidity with user-adjustable visual and audible alarm

- Checks for Carbon Dioxide (CO_2) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Visible and Audible CO_2 warning alarm
- Displays Year, Month, Date, and Time
- Max/Min CO_2 value recall function
- Complete with Universal AC adaptor; 1 year warranty

ORDERING

CO100	Desktop Indoor Air Quality CO_2 Monitor

CO200/CO210 Desktop Indoor Air Quality CO_2 Monitor

Measures Carbon Dioxide (CO_2), Air Temperature and Humidity with user adjustable high/low alarms and choice of datalogging model

- Checks for Carbon Dioxide (CO_2) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Displays Year, Month, Date, and Time
- Max/Min CO_2 value recall function
- Auto Baseline Calibration (minimum CO_2 level over 7.5 days) or manual calibration in fresh air
- Dimensions/Weight: 4.6x4x4" (117x102x102mm)/ 7.2oz (204g)
- Complete with Universal AC adaptor; 1 year warranty
- **Model CO200** - Visible and Audible CO_2 warning alarm with relay output for ventilation control

  Model CO210 - Datalogs up to 5333 points for each parameter and can be downloaded to a PC using included Windows® compatible software and cable
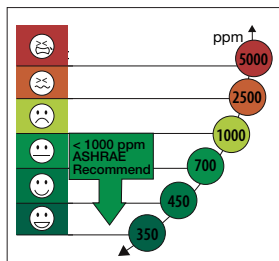
Model CO200

Model CO210 - Datalogger

ORDERING

CO200	Desktop Indoor Air Quality CO_2 Monitor
CO210	Desktop Indoor Air Quality CO_2 Monitor/Datalogger

CO220 Desktop Indoor Air Quality CO_2 Monitor

User-adjustable visual/audible alarm and calculates Dew Point and Wet Bulb

- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Audible CO_2 warning alarm when concentration level exceeds high/low user set point
- Displays Year, Month, Date, and Time
- Min/Max CO_2 value recall function plus Manually store/recall 99 readings
- Calculates statistical weighted averages of TWA (8 hour Time Weighted Average) and STEL (15 minute Short Term Exposure Limit)
- lps% (Liters per second per person) and cfm/p (cubic feet per minute per person)
- Automatic Baseline Calibration function

Six facial icons indicating CO_2 concentration level for indoor air quality.

Includes Universal AC adapter (UA100-240) & multiple plug types; 1 year warranty

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Monoxide (CO)	0 to 9,999ppm	1ppm	±(5%rdg + 50ppm)
Temperature (Air)	14 to 140°F (-10 to 60°C)	0.1°F/°C	±1.0°F (0.6°C)
Relative Humidity	0.1 to 99.9%RH	0.1%RH	±3%RH @ 25°C
Dimensions/Wt	6.1x3.4x3.2" (155x87x81mm)/ 5.8oz (165g)		

ORDERING

CO220	Desktop Indoor Air Quality CO_2 Monitor

CO230 Indoor Air Quality CO_2 Monitor

NEW

Automatic Baseline Calibration (ABC) with disable for use in areas with continuously elevated CO_2 levels (>400ppm)

- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Desktop or wall mount with triple LCD displays CO_2, Temperature, and Humidity; Calculates Dew Point and Wet Bulb values
- Visible/Audible CO_2 warning alarm when level exceeds high or low user set point
- Min/Max CO_2 value recall function
- Calculates statistical weighted averages of TWA (8 hour Time Weighted Average) and STEL (15 minute Short Term Exposure Limit)
- Alarm relay output for ventilation control
- Complete with Universal AC adaptor and multiple plug types (US, EU, UK, AUS); 1 year warranty

SPECIFICATIONS	RANGE	RESOLUTION
Carbon Dioxide (CO_2)	0 to 9,999ppm	1ppm
Temperature (Air)	14 to 140°F (-10 to 60°C)	0.1°F/°C
Relative Humidity	0.1 to 99.9%RH	0.1%RH
Wet Bulb	Calculated	
Dew Point	Calculated	
Dimensions	5.1x3.4x2.4" (130x85x60mm)	
Weight	7.2oz (204g)	

ORDERING	
CO230	Indoor Air Quality CO_2 Monitor

CO240 Handheld Indoor Air Quality CO_2 Meter

NEW

Dual display of CO_2 level and Humidity, Temperature, Dew Point, or Wet Bulb

- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Audible CO_2 warning alarm when concentration level exceeds high user set point
- Min/Max CO_2 value recall function
- Software for on-line (real-time) data streaming to a PC
- Automatic Baseline Calibration function
- Data hold, Low battery indicator, and Auto Power Off (with disable) function
- Tripod mount (tripod sold separately)
- Complete with six AAA batteries, USB cable, PC software, Universal AC adaptor (with 4 plugs US, EU, UK, AUS), and soft case; 1 year warranty

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Dioxide (CO_2)	0 to 9,999ppm	1ppm	±(5%rdg + 75ppm)
Temperature (Air)	14 to 122°F (-10 to 50°C)	0.1°F/°C	±2.0°F (1.0°C)
Relative Humidity	10 to 90%RH	0.1%RH	±5%RH @ 25°C
Dew Point	-99.2 to 118°F (-72.9 to 47°C)	0.1°F/°C	
Wet Bulb	12.2 to 118.8°F (-11 to 48.2°C)	0.1°F/°C	
Dimensions	8.3x2.4x1.6" (211x60x40mm)		
Weight	6.4oz (181.4g)		

ORDERING	
CO240	Handheld Indoor Air Quality CO_2 Meter

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.*

CO250 Portable Indoor Air Quality CO_2 Meter

Measure CO_2 level in office buildings to ensure proper ventilation. Includes software and cable, 4 AA batteries, and case; 1 year warranty

$C\epsilon$

Measures Carbon Dioxide (CO_2) , Temperature, Humidity, Dew Point, and Wet Bulb and calculates statistical 8 hour and 15 minute time weighted averages

- Checks for Carbon Dioxide (CO_2) concentrations, measures Temperature and Relative Humidity, and displays calculated Dew Point and Wet Bulb
- Calculates statistical weighted averages of TWA (8 hour time weighted average) and STEL (15 minute short term exposure limit)
- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Backlit triple LCD display and user programmable audible alarm
- RS-232 interface, software and cable included to analyze data on a PC
- Optional 33% and 75% RH calibration bottles (RH300-CAL)

SPECIFICATIONS	RANGE	RESOLUTION
Carbon Dioxide (CO_2)	0 to 5,000ppm	1ppm
Temperature	14 to 140°F (-10 to 60°C)	0.1°F/°C
Humidity	0.0 to 99.9%	0.1%
Dimensions/ Weight	7.9x2.7x2.3" (200x70x57mm)/ 6.7 oz. (190g)	

ORDERING	
CO250	Portable Indoor Air Quality CO_2 Meter
RH300-CAL	33% and 75%RH Calibration Kit

EA80 Indoor Air Quality CO_2 Meter/Datalogger

Includes 6 AAA batteries, RS-232 cable, and Windows® compatible software; 1 year warranty

$C\epsilon$

Measures CO_2 level, Temperature, Humidity, Dew Point and Wet Bulb

- Checks for Carbon Dioxide (CO_2) concentrations, measures Temperature and Relative Humidity, and displays calculated Dew Point and Wet Bulb
- Maintenance free dual wavelength NDIR (non-dispersive infrared) CO_2 sensor
- Continuous (20,000 sets) or manual (99 sets) datalogging
- Data hold, Max/Min with Time stamp, Alarm, and Auto Power Off
- Easy calibration in fresh air

SPECIFICATIONS	RANGE	RESOLUTION
Carbon Dioxide (CO_2)	0 to 6,000ppm	1ppm
Temperature	-4 to 140°F (-20 to 60°C)	0.1°F/°C
Humidity	10 to 95%	0.1%
Dimensions/ Weight	5.3 x 2.8 x 1.2" (135 x 72 x 31mm)/ 8.2oz (235g)	

ORDERING	
EA80	Indoor Air Quality CO_2 Meter/Datalogger

SD800 CO_2/Humidity/Temperature Datalogger

Includes 6 AAA batteries, SD memory card, Universal AC adaptor, and mounting bracket; 1 year warranty

$C\epsilon$

Records data on an SD card in Excel® format to transfer to a PC for analysis

- Checks for Carbon Dioxide (CO_2) concentrations
- Maintenance free dual wavelength NDIR (non-dispersive infrared) CO_2 sensor
- Triple LCD simultaneously displays CO_2, Temperature and Relative Humidity
- Selectable data sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or Auto

SPECIFICATIONS	RANGE	MAX. RESOLUTION	BASIC ACCURACY
Carbon Dioxide (CO_2)	0 to 4,000ppm	1ppm	±40ppm (<1000ppm); ±5% rdg (>1000ppm)
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±1.8°F/0.8°C
Humidity	10 to 90%	0.1%	±4%RH
Datalogging	Datalogs using 4GB SD memory card (included)		
Dimensions/ Weight	5.2 x 3.1 x 1.3" (132 x 80 x 32mm)/ 9.9oz (282g)		

ORDERING	
SD800	CO_2 /Humidity/Temperature Datalogger

FM100 Formaldehyde (CH₂O or HCHO) Monitor

Includes built-in stand, side cover, Universal AC Adaptor (multi-plugs US, EU, UK, and AU), and 4 AAA batteries; 1 year warranty

Alternately displays Formaldehyde level, Temperature, and Humidity
- Bright tri-colored LED indicator: Green <0.08ppm, Yellow = 0.08 to 0.79ppm, and Red = 0.80ppm and above
- LCD displays alarm icon, LED light turns red, and loud audible beeper sounds when indoor CH₂O level exceeds set point
- "ZERO" Re-Calibration function
- Manual Temperature and Relative Humidity Compensation (adjustable)
- Designed with Electrochemical CH₂O sensor; CH₂O Calibration function in fresh air
- Four display error codes for troubleshooting; Recover to factory setting function

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Formaldehyde (HCHO & CH₂O)	0.00 to 5.00ppm (mg/m³)	0.01ppm (mg/m³)	±5% of rdg + 0.03ppm
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±2°F/1°C
Humidity	20 to 90%RH	1%RH	±5%RH
Dimensions/Wt	4.4x4.3x2.1" (113x108x53mm)/ 5.6oz (159g)		

ORDERING	
FM100	Formaldehyde Monitor

FM200 Handheld Formaldehyde (CH₂O or HCHO) Meter

Includes built-in stand, side cover, Universal AC Adaptor (multi-plugs US, EU, UK, and AU), and 4 AAA batteries; 1 year warranty

Displays Formaldehyde level, Air Temperature, and Relative Humidity
- Audible alarm default at 0.08ppm (adjustable)
- Designed with Electrochemical CH₂O sensor
- Sensor LED indicator shows where sensor is connected properly, power is on, and fan is in working condition
- Built-in bumper that allows the fan inside the sensor to draw in gas quickly
- CH₂O Calibration function in fresh air
- Min/Max, Data Hold, Auto power off with disable, and Low battery indicator

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Formaldehyde (HCHO & CH₂O)	0.00 to 5.00ppm	0.01ppm	±5%
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±2°F/1°C
Humidity	10 to 90%RH	0.1%RH	±5%RH
Dimensions/Wt	6.1x3.4x3.2" (15 x87x81mm)/ 5.8oz (165g)		

ORDERING	
FM200	Handheld Formaldehyde Meter

FM300 Desktop Formaldehyde (CH₂O or HCHO) Monitor

😖	>0.8ppm CH₂O
😐	>0.08ppm, <0.80ppm CH₂O
🙂	<0.08ppm CH₂O

Three facial icons indicating CH₂O concentration level for indoor air quality

CE

Measures Formaldehyde (CH₂O or HCHO) concentration, Air Temperature & Humidity with date (Year, Month, Day) and time; User settable audible alarm
- Visibly bright LED (green & red) and three facial icons indicate CH₂O warning levels
- Audible beeping alarm default at 0.08ppm (adjustable)
- Min/Max CH₂O value recall function
- Calculates statistical weighted averages of TWA (8-hour Time Weighted Average) and STEL (15-minute Short Term Exposure Limit)
- Internal memory for manually storing up to 99 readings with recall function
- 1 year warranty
- Complete with Universal AC adapter (UA100-240) and multiple plug types

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Formaldehyde (HCHO & CH₂O)	0.00 to 5.00ppm	0.01ppm	±5%
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±2°F/1°C
Humidity	10 to 90%RH	0.1%RH	±5%RH
Dimensions/Wt	6.1 x 3.4 x 3.2" (155 x 87 x 81mm)/ 5.8oz (165g)		

ORDERING	
FM300	Desktop Formaldehyde Monitor

CALIBRATION TRACEABLE TO **NIST**

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

VFM200 VOC/Formaldehyde (CH$_2$O or HCHO) Meter

NEW

Measures VOC (Volatile Organic Compound) and Formaldehyde concentrations in real-time

- Backlit LCD displays TVOC (Total Volatile Organic Compound) and HCHO (Formaldehyde) concentrations simultaneously in real-time
- Built-in fast response, high accuracy fuel cell Formaldehyde sensor
- Adjustable audible and visible high/low alarms
- Auto Power Off
- 1 year warranty
- Complete with rechargeable battery and Universal AC Adaptor/ Charger (multi-plugs US, EU, UK, and AU)

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
TVOC	0.00 to 9.99ppm (mg/m^3)	0.01ppm (mg/m^3)	±5%FS
Formaldehyde (CH$_2$O or HCHO)	0.00 to 5.00ppm (mg/m^3)	0.01ppm (mg/m^3)	±5%FS
Response Time	<2s		
Power Supply	Rechargeable battery and AC adaptor		
Charge Time	approx. 3 hours		
Dimensions	6.5x2.4x1" (165 x 60 x 25mm)/ 1.3lbs (584g)		

ORDERING	
VFM200	VOC/Formaldehyde Meter

SD750 3-Channel Pressure Meter/Datalogger

Records data on an SD card in Excel® format for easy transfer to a PC for analysis plus the 3-Channel feature allows technicians to easily monitor and record pressure levels from three sources using one meter instead of three

- Triple LCD simultaneously displays 3 pressure channels
- Connect to installed transducers (up to 5000psi with 4-20mA output) or optional 30psi, 150psi or 300psi transducers listed below
- 4-20mA input with readout in 9 units of measure
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- User can select the data sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or Auto
- 1 year warranty
- Complete with six AAA batteries, SD card, Universal AC Adaptor, three connectors, and mounting bracket
- Optional transducers sold separately (choose 30psi, 150psi or 300psi range)

Applications include pressure measurements from hydraulic, pneumatic, air compressor, and process gas systems, as well as other industrial applications.

Optional Universal Pressure Transducers available in three ranges (30psi, 150psi, and 300psi). Purchase the transducer with the range that best fits your application needs or call our tech support hotline if you need guidance.

SPECIFICATIONS	30 PSI	150 PSI	300 PSI
bar	0.002 to 2 bar	0.01 to 10 bar	0.02 to 20 bar
psi	0.02 to 30 psi	0.2 to 150 psi	0.2 to 300 psi
kg/cm^2	0.002 to 2.040 kg/cm^2	0.01 to 10.19 kg/cm^2	0.02 to 20.40 kg/cm^2
mmHg	2 to 1500 mmHg	10 to 7500 mmHg	20 to 15000 mmHg
inHg	0.05 to 59.05 inHg	0.2 to 295.2 inHg	0.5 to 590.5 inHg
mH$_2$O	0.02 to 20.40 mH$_2$O	0.1 to 101.9 mH$_2$O	0.2 to 204.0 mH$_2$O
inH$_2$O	1 to 802 inH$_2$O	5 to 4010 inH$_2$O	10 to 8020 inH$_2$O
atm	0.002 to 1.974 atm	0.01 to 9.87 atm	0.02 to 19.74 atm
kPa	0.2 to 200.0 kPa	1 to 1000 kPa	2 to 2000 kPa
Datalogging	Datalogs using 4GB SD memory card		
Dimensions/ Weight	5.2x3.1x1.3" (132x80x32mm)/7oz (199g)		

ORDERING	
SD750 **N**	3-Channel Pressure Datalogger
Accessories (Meter not included)	
PT30-SD	Pressure Transducer for SD750 (30psi)
PT150-SD	Pressure Transducer for SD750 (150psi)
PT300-SD	Pressure Transducer for SD750 (300psi)

HD350 Pitot Tube Anemometer + Differential Manometer

Pitot Tube measures Air Velocity/Airflow in difficult-to-reach or tight locations where a vane anemometer won't fit

- Simultaneous display of Pressure, Air Velocity or Air Flow plus Temperature
- ±0.7252psi range
- 5 selectable units of pressure measurement
- Max/Min/Avg recording and Relative time stamp
- Data Hold and Auto power off functions
- Large LCD display with backlighting
- Zero function for offset correction or measurement
- Store/Recall up to 99 readings in each mode
- USB port includes software
- 3 year warranty
- Complete with Windows® compatible software with cable, 9V battery, pitot tube with two 33.5" (85cm) connection hoses, 100V-240V universal AC Adaptor with multiple plugs, and hard carrying case

Includes pitot tube with two 33.5" (85cm) connection hoses

$C\epsilon$

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Pressure			
psi	0.7252psi	0.0001psi	±0.3%FS
mbar	50.00mbar	0.01mbar	±0.3%FS
inH$_2$O	20.07inH$_2$O	0.01inH$_2$O	±0.3%FS
mmH$_2$O	509.8mmH$_2$O	0.01mmH$_2$O	±0.3%FS
Pa	5000Pa	1Pa	±0.3%FS
Linearity/Hysteresis	±0.29FS		
Maximum Pressure	10psi		
Air Velocity/Flow			
ft/min	200 to 15733	1	±1% FS
m/s	1 to 80.00	0.01	±1% FS
km/h	3.5 to 288.0	0.1	±1% FS
MPH	2.25 to 178.66	0.01	±1% FS
knots	2.0 to 154.6	0.1	±1% FS
CFM/CMM	0 to 99,999	0.001	±1% FS
Temperature	32.0 to 122.0°F (0 to 50°C)	0.1°	±3°F/1.5°C
Dimensions/Weight	Meter: 8.2 x 2.9 x 1.9" (210 x 75 x 50mm) / 12oz (340g); Pitot Tube: 15.4 x 7.7" (390 x 195mm); Diameter 0.32" (8mm) / 7.2oz (204g)		

ORDERING

HD350	Pitot Tube Anemometer + Differential Manometer

Ⓝ *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

HD700 Series Differential Pressure Manometers

Low Range/High Resolution Gauge or Differential Pressure
- Three models to choose from: Model HD700 (±2psi range),
  Model HD750 (±5psi range), and Model HD755 (±0.5psi range)
- 11 selectable units of measure
- MAX/MIN recording and Relative time stamp
- Data Hold and Auto power off
- Zero function for offset correction or measurement
- Large LCD display with backlighting
- USB port includes PC software
- 3 year warranty
- Complete with 9V battery, Windows® compatible software with USB cable, 100-240V Universal AC adaptor, connection hose, built-in stand, and hard carrying case

HD755 - (0.5psi)

HD750 - (5psi)

HD700 - (2psi)

SPECIFICATIONS	HD700	HD750	HD755
psi	2psi (0.001psi)	5psi (0.001psi)	0.5psi (0.001psi)
inH$_2$O	55.40inH$_2$O (0.01inH$_2$O)	138.3inH$_2$O (0.1inH$_2$O)	13.85inH$_2$O (0.01inH$_2$O)
mbar	137.8mbar (0.1mbar)	344.7mbar (0.1mbar)	34.47mbar (0.01mbar)
kPa	13.78kPa (0.01kPa)	34.47kPa (0.01kPa)	3.447kPa (0.001kPa)
inHg	4.072inHg (0.001inHg)	10.18inHg (0.01inHg)	1.018inHg (0.001inHg)
mmHg	103.4mmHg (0.1mmHg)	258.5mmHg (0.1mmHg)	25.85mmHg (0.01mmHg)
ozin^2	32ozin^2 (0.01ozin^2)	80ozin^2 (0.01ozin^2)	8.00ozin^2 (0.01ozin^2)
ftH$_2$O	4.616ftH$_2$O (0.001ftH$_2$O)	11.53ftH$_2$O (0.01ftH$_2$O)	1.154ftH$_2$O (0.001ftH$_2$O)
cmH$_2$O	140cmH$_2$O (0.1cmH$_2$O)	350.1cmH$_2$O (0.1cmH$_2$O)	2.59cmH$_2$O (0.01cmH$_2$O)
kgcm^2	0.140kgcm^2 (0.001kgcm^2)	0.351kgcm^2 (0.001kgcm^2)	0.035kgcm^2 (0.001kgcm^2)
bar	0.137bar (0.001bar)	0.344bar (0.001bar)	0.034bar (0.001bar)
Basic Accuracy	±0.3%FS	±0.3%FS	±0.3%FS
Dimensions/Weight	Meter: 8.2x2.9x1.9" (210x75x50mm)/ 9.8oz (280g)		

ORDERING	
HD700 N	Differential Pressure Manometer (2psi)
HD750 N	Differential Pressure Manometer (5psi)
HD755 N	Differential Pressure Manometer (0.5psi)

407910 Heavy Duty Differential Pressure Manometer

Wide range dual input with multiple units and RS-232 interface
- Dual differential inputs with internal sensors
- Wide (±802 inches of water) measurement range with high resolution to 0.5 inch
- Displays 8 types of pressure units
- Zero function for offset measurements
- Data Hold, Auto power off, and MAX/MIN
- Built-in RS-232 PC interface — optional 407001 Data Acquisition software (see for details)
- 3 year warranty
- Complete with 2 quick-disconnect fittings, 9V battery, protective holster with stand, and case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
psi	±29psi	0.02psi	±1% FS
mbar	±2000mbar	1mbar	±2% FS
kg/cm^2	±2.040kg/cm^2	0.001kg/cm^2	±1% FS
mmHg	±1500mmHg	1mmHg	±1% FS
inHg	±59.05inHg	0.05inHg	±1% FS
mH$_2$O	±20.40mH$_2$O	0.01mH$_2$O	±1% FS
inH$_2$O	±802.0inH$_2$O	0.5inH$_2$O	±1% FS
Atmosphere	±1.974atm	0.001atm	±1% FS
Dimensions/Weight	Meter: 7x2.9x1.3" (178x74x33mm)/12oz (350g)		

ORDERING	
407910 N	Heavy Duty Differential Pressure Manometer
156119	117VAC Adaptor
409997	Soft Vinyl Carrying Case

EXTECH INSTRUMENTS

SDL700 Pressure Meter/Datalogger

SD memory card

Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Accepts interchangeable transducers with ranges of 30, 150, 300psi (Transducers sold separately)
- Meter automatically senses plug-in transducer's range and calibration
- Selectable data sampling rate: 1 to 3600 seconds
- Internal memory stores 99 readings manually; External data storage in Excel format on an SD card (included) for easy transfer to a PC
- Large backlit dual LCD
- MIN/MAX, Data Hold, and Auto power functions
- Complete with 6 x AA batteries, SD memory card, and hard carrying case; 3 year warranty. Optional AC adaptor.

Optional Pressure Transducers available in:
30psi (PT30)
150psi (PT150)
300psi (PT300)

Watch the
Video
www.extech.com/video

SPECIFICATIONS	30psi	150psi	300psi
bar	0.002 to 2	0.01 to 10	0.02 to 20
psi	0.02 to 29	0.2 to 145	0.2 to 290
kg/cm^2	0.002 to 2.040	0.01 to 10.19	0.02 to 20.40
mmHg	2 to 1500	10 to 7500	20 to 15000
inHg	0.05 to 59.05	0.2 to 295.2	0.5 to 590.5
mH$_2$O	0.02 to 20.40	0.1 to 101.9	0.2 to 204.0
inH$_2$O	1 to 802	5 to 4010	10 to 8020
atm	0.002 to 1.974	0.01 to 9.87	0.02 to 19.74
hPA	2 to 2000	10 to 10000	20 to 20000
kPA	0.2 to 200.0	1 to 1000	2 to 2000
Dimensions/Weight	Meter: 7.2x2.9x1.9" (182X73X48mm)/ 17.3oz (490g)		

ORDERING	
SDL700 N	Pressure Meter/Datalogger
PT30	30psi Pressure Transducer
PT150	150psi Pressure Transducer
PT300	300psi Pressure Transducer
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)

Extech's SD series Dataloggers

Extech's SD series Dataloggers measure, display and record various industrial parameters, such as Pressure level for hydraulics, pneumatics, air compressors, and process gas systems to Environmental conditions such as Humidity, Temperature, Carbon Dioxide, and Barometric Pressure. Featuring date/time stamps and selectable data sampling rates, all SD series models record in Excel® format on included SD cards so users can transfer files to a PC for further analysis and reporting.

SD750 3-Channel Pressure Meter/Datalogger (p. 109)

SD700 Barometric Pressure/ Humidity/Temperature Datalogger (p. 87)

SD200 3-Channel Temperature Datalogger (p. 73)

SD800 CO2/Humidity/Temperature Datalogger (p. 107)

SD500 Humidity/Temperature Datalogger (p. 87)

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

475055 High Capacity Force Gauge with PC Interface

220lbs (100kg), Tension, and Compression
- Tension or Compression, Peak hold and Zero functions
- Large LCD with back light feature and Positive/Reverse display for easy readability
- PC interface and optional software

Complete with tension and compression adaptors, six AA 1.5V batteries, and case; Optional AC Adaptors available 153117 or UA100-240, see below for ordering; 1 year warranty

SPECIFICATIONS

Range	220 lbs, 100kg, 980 Newtons
Basic Accuracy (23°C)	±(0.5%rdg)
Resolution	0.05lbs, 0.05kg, 0.2 Newtons
Overload capacity	150kg
Update Rate	Fast mode 0.2 seconds; Slow mode 0.6 seconds
Full scale deflection	<1mm
Transducer type	Load cell
Dimensions/ Weight	Meter: 8.5 x 3.5 x 1.8" (215 x 90 x 45 mm)/ 1 lb (450g)

ORDERING

475055 **N**	High Capacity Force Gauge with PC Interface
407001	Data Acquisition Software and Serial Cable
407001-USB	USB adaptor for 407001

475040/475044/-SD Digital Force Gauges

Push/Pull measurements in kg, lbs, oz, and Newton units
- 5 digit 0.4" (10mm) LCD with reversible display feature to match viewing angle
- Zero Adjust, Peak Hold, and Selectable fast/slow response feature
- Over-range, low battery, and advanced function indication
- 1 year warranty
- Complete with hook adaptor for tension, compression adaptors (flat, cone and chisel head), 5" (127mm) extension rod, 6 AA batteries, and case; 475040-SD and 475044-SD also include SD memory card

475040
475040-SD

475044
475044-SD

SPECIFICATIONS	475040/475040-SD	475044/475044-SD (HIGH CAPACITY)
Datalogging	— / SD memory card for 475040-SD	— / SD memory card for 475044-SD
Range	176oz, 5000g, 49 Newtons	44lbs, 20kg, 196 Newtons
Basic Accuracy (23°C)	±(0.4%)	±(0.5%)
Resolution	0.05oz, 1g, 0.01 Newtons	0.01lbs, 0.01kg, 0.05 Newtons
Overload capacity	10kg	30kg
Update Rate	Fast mode 0.2secs; Slow mode 0.6secs	
Full scale deflection	2.00mm	
Transducer type	Load cell	
Dimensions/ Weight	8.5x3.5x1.8" (215x90x45mm)/ 1.4 lbs (650g)	

ORDERING

475040 **N**	Digital Force Gauge
475040-SD **N**	Digital Force Gauge/Datalogger
475044 **N**	High Capacity Force Gauge
475044-SD **N**	High Capacity Force Gauge/Datalogger
479097	Accessory Kit (2ea.- hook, flat, cone, & chisel head adaptors)
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)

475040-SD & 475044-SD include SD memory card to conveniently datalog readings

LIGHT METERS

401027 Pocket Foot Candle Light Meter

Measures up to 2,000Fc for basic lighting applications

- Easy to operate Foot candle light meter with 2 ranges
- Convenient pocket size design
- Over-range indication
- Complete with 9V battery, light sensor with protective cover and 45" (1.1m) cable, and built-in stand

401025 Foot Candle/Lux Meter

Includes analog output and fast/slow response feature

- Accurately displays light level in terms of Fc or Lux over three ranges
- Select fast (1 second) or slow (2 seconds) response time
- Analog output of 1mV per count for capturing readings to a recorder
- Complete with 9V battery, light sensor with protective cover and 47" (1.2m) cable, and built-in stand

Reliable, Easy to Use, and Accurate

Check for proper indoor and outdoor light levels to comply with OSHA regulations

ACCESSORIES	
407001	Data Acquisition Software
407001-USB	USB Adaptor
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)

407001 Data Acquisition Software
- Enables users of specific Extech meters to capture, display and store readings on a PC
- Sampling time: 1sec - 60 mins
- Import data into Excel
- Includes Windows® 95/98/2000/ NT/XP/7 compatible software and serial cable
- Optional USB Adaptor — 407001-USB

SPECIFICATIONS	401027 Ⓝ	401025 Ⓝ
Fc Range	200, 2000Fc	200, 2000, 5000Fc
Lux Range	—	2000, 20000, 50000Lux
Max. Resolution	0.1Fc	0.1Fc/1Lux
Basic Accuracy	±5% FS	±5% FS
Temperature (Type J/K)	—	—
Cosine & Color Corrected	Yes	Yes
Analog output	—	Yes
PC Interface	—	—
Datalogging	—	—
CE approved	Yes	Yes
Dimensions/ Weight	5.2x2.8x1" (131x70x25mm)/ 6.9oz (195g)	6.4x2.8x1.2" (163x70x30mm)/ 8.3oz (220g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO **NIST**

Ⓝ *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

LT300 **Light Meter**

Digital and Analog display of light in Fc or Lux

- Wide range to 40,000 Foot-Candles or 400,000 Lux with high resolution to 0.01 Fc/Lux
- Relative mode indicates change in light levels
- Peak mode captures highest reading
- Remote light sensor on 12" (305mm) coiled cable — expandable to 24" (609mm)
- Utilizes precision photo diode and color correction filter
- Cosine and color corrected measurements
- MIN/MAX and Data Hold
- Large LCD display with analog bargraph
- Backlight for readings in low light levels
- Complete with 9V battery, light sensor with protective cover, protective holster, and pouch

407026 **Heavy Duty Light Meter with PC Interface**

Enhance accuracy by selecting one of four lighting types plus PC interface

- % displays differential from reference point
- "ZERO" Re-Calibration
- Enhance accuracy by selecting lighting type Tungsten/Daylight, Fluorescent, Sodium, Mercury
- MAX/MIN/AVG, Data Hold, and Auto power off
- Built-in PC serial interface with optional 407001 Data Acquisition software (see p. 114 for details)
- Complete with 9V battery, light sensor, and protective cover with 45" (1.1m) cable, and protective holster with stand. Optional 117V (156119) or 220V (156221) AC adaptors.

SDL400 **Light Meter/Datalogger**

Includes SD memory card

Datalogger date/time stamps and stores readings on an SD card in Excel® format

- Wide range: 10,000Fc/100kLux
- Cosine and color-corrected measurements
- Utilizes precision photo diode and spectral response filter
- Selectable data sampling rate: 1 to 3600 seconds (1 hour)
- Internal memory stores 99 readings manually
- Large backlit LCD
- Type K/J Thermocouple input
- MIN/MAX and Data Hold
- "ZERO" Re-Calibration
- Auto power off with disable function
- Complete with 6 x AA batteries, SD card, hard case & light sensor with protective cover; Optional Universal AC Adaptor UA100-240 also see p. 41 and 70 for optional Type K and J Thermocouple probes

LT300 Ⓝ	407026 Ⓝ	SDL400 Ⓝ	SPECIFICATIONS
40,000Fc	200, 2000, 5000Fc	200, 2000, 10kFc	Fc Range
400,000Lux	2000, 20000, 50000Lux	2000, 20k, 100kLux	Lux Range
0.01Fc/Lux	0.1Fc/1Lux	0.1Fc/1Lux	Max. Resolution
±5% rdg	±4%FS	±4%rdg	Basic Accuracy
—	—	J: -148 to 2192°F (-100 to 1200°C) K: -148 to 2372°F (-100 to 1300°C)	Temperature (Type J/K)
Yes	Yes	Yes	Cosine & Color Corrected
—	—	—	Analog output
—	Optional 407001 Software (see p. 114)	SD Card	PC Interface
—	—	Manual: 99 readings Continuous: Datalogs with 4GB SD card	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.95x1.57" (150x75x40mm/ 7oz (200g)	7x2.9x1.3" (178x74x33mm)/ 1.6lbs (726g)	7.2x2.9x1.9" (182X73X48mm)/16.8oz (475g)	Dimensions/ Weight
1 year	3 years	3 years	Warranty

LIGHT *METERS*

Bright Solutions from Extech

Extech light meters deliver accurate, repeatable readings and feature big-digit displays, wide-range models, ruggedized designs, as well as memory and datalogging capabilities.

EA31 EasyView® Big Digit Light Meter

Measures light intensity up to 20,000Fc/Lux

- Compact and rugged design with large display and bargraph
- Data Hold and MIN/MAX readings
- Auto power off
- Complete with built-in stand, light sensor and protective cover with 39" (1m) coiled cable, protective holster, 6 AAA batteries, and carrying case

EA30 EasyView® Big Digit, Wide range Light Meter

Measures high intensity light up to 40,000Fc and 400,000Lux, is ideal for outdoor applications

- Compact and rugged design with large display and bargraph
- Relative function for zero or difference from reference value
- Peak captures short light pulses to 100µSeconds
- Data Hold and MIN/MAX readings
- Auto power off, Zero function
- Complete with built-in stand, light sensor and protective cover with 39" (1m) coiled cable, protective holster, 6 AAA batteries, and carrying case

N NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** next to product part numbers.

SPECIFICATIONS	EA31 **N**	EA30 **N**
Display counts	2000 count LCD	4000 count LCD
Fc Range	20, 200, 2000, 20,000Fc	40, 400, 4000, 40,000Fc
Lux Range	20, 200, 2000, 20,000Lux	40, 400, 4000, 40,000, 400,000Lux
Max. Resolution	0.01Fc/Lux	0.01Fc/Lux
Basic Accuracy	±3%rdg + 0.5%FS	±3%rdg + 0.5%FS
Cosine & Color Corrected	Yes	Yes
PC Interface	—	—
Datalogging	—	—
CE approved	Yes	Yes
Dimensions	5.9x2.8x1.4" (150x72x33mm)	5.9x2.8x1.4" (150x72x33mm)
Weight	8.3oz (235g)	8.3oz (235g)
Warranty	1 year	1 year

CALIBRATION
TRACEABLE TO **NIST**

N *Indicates products that are available with optional calibration traceable to **NIST**. See page 160 for a complete listing.*

EA33 EasyView® Light Meter with Memory

Advanced illuminance functions for taking measurements in direct sunlight

- Wide measurement range to 99,990Fc (999,900 Lux)
- Luminous intensity (candela) calculations
- Store and recall up to 50 measurements, includes relative or real time clock stamp
- Ripple function excludes the effect of stray light from the primary light source measurement
- Auto power off with disable
- Multiple point average function
- Timed-Hold, Relative in absolute value or % deviation, and Comparator function with high/low alarms
- Includes built-in stand, light sensor and protective cover with 36" (0.9m) coiled cable, protective holster, 6 AAA batteries, and case

HD400 Light Meter

Large backlit display with fast, 40-segment bar graph for capturing trends

- Wide range to 40,000Fc or 400,000Lux
- Cosine and color corrected measurements
- Utilizes precision silicon photo diode and spectral response filter
- Peak mode (10ms) captures highest reading
- Relative mode indicates change in light levels
- Heavy duty, rugged double molded housing
- Built-in USB port
- Includes light sensor and cover with 39" (1m) cable, Windows® compatible software with USB cable, built-in stand, hard carrying case, and 9V battery

HD450 Light Meter Datalogger

Automatically stores up to 16,000 readings or manually store/recall up to 99 readings

- Records in a continuous mode up to 16,000 readings
- Wide range to 40,000Fc or 400,000Lux
- Cosine and color corrected measurements
- Utilizes precision silicon photo diode and spectral response filter
- Peak mode (10ms) captures highest reading
- Relative mode indicates change in light levels
- Heavy duty, rugged double molded housing
- Built-in USB port
- Includes light sensor and cover with 39" (1m) cable, Windows® compatible software, USB cable, built-in stand, case, and 9V battery

EA33 N	HD400 N	HD450 N	SPECIFICATIONS
999,999 count LCD	4000 count backlit LCD	4000 count backlit LCD	Display counts
9.999, 99.99, 999.9, 9999, 99,990Fc	40, 400, 4000, 40kFc	40, 400, 4000, 40kFc	Fc Range
99.99, 999.9, 9999, 99,990, 999,900Lux	400, 4000, 40k, 400kLux	400, 4000, 40k, 400kLux	Lux Range
0.001Fc/0.01Lux	0.01Fc/0.1Lux	0.01Fc/0.1Lux	Max. Resolution
±3%	±5%	±5%	Basic Accuracy
Yes	Yes	Yes	Cosine & Color Corrected
—	USB with software included	USB with software included	PC Interface
—	Directly to PC using software	16,000 data (continuous)/ 99 data (manual)	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.8x1.4" (150x72x33mm)	6.7x 3.1x1.6" (170x80x40mm)	6.7x 3.1x1.6" (170x80x40mm)	Dimensions
11.29oz (320g)	13.7oz (390g)	13.7oz (390g)	Weight
1 year	3 years	3 years	Warranty

LRK10/LRK15 Lighting Retrofit Kits

Applications:
- Lighting System Audits
- Post-retrofit Verification Testing
- Construction Audits
- Project Installation

Designed for professionals who routinely audit existing and replacement lighting systems for energy efficiency and lighting performance

- Successful lighting retrofit contractors need tools to comprehensively assess lighting infrastructure: from light levels for a given space to energy usage. Older technology such as incandescent lights or aging ballasts can impact the bottom line with added energy costs. Insufficient or excessive lighting can impact productivity or worker health with eyestrain from dim lighting or glare. As you work with clients to evaluate newer, high efficiency fluorescent and LED lighting retrofits, get the tools that deliver accurate, actionable information.
- Both LRK10 and LRK15 kits include:
  - Model LT300 Light Meter: Quickly measure lighting levels with this ergonomic, easy to use light meter (see p. 115)
  - Model DT200 Compact Laser Distance Meter - Quickly calculate area even in hard-to-measure spots
- LRK15 kit also includes:
  - Model 380940 400A AC/DC Power Clamp Meter: Versatile electrical test tool with built-in wattage measurement

ORDERING	(VISIT WWW.EXTECH.COM FOR INDIVIDUAL PRODUCT INFORMATION)
LRK10	Lighting Retrofit Kit
LRK15	Lighting Retrofit Kit with Power Clamp Meter

Quickly measure lighting levels with this ergonomic, easy to use light meter.

Laser distance meter with built-in tools to quickly calculate area even in hard-to-measure spots.

Versatile electrical test tool with built-in wattage measurement.

SDL470 UVA/UVC Light Meter/Datalogger

Complete with built-in tilt stand, SD memory card, UVA light sensor with protective cover, UVC light sensor, hard case, Universal AC adaptor, and 6 x AA batteries; 1 year warranty

Measures UVA (long wave) and UVC (short wave) light sources, plus date/time stamps and stores files onto an SD memory card in Excel® format

- UVA probe captures long-wave 365nm UV irradiance measurements under a UVA (black light) source
- UVC probe captures short-wave 254nm UV irradiance measurements under a UVC light source
- Cosine correction filter and metal housing
- Internal memory stores 99 readings manually; External data storage in Excel format on an SD card (included) for easy transfer to a PC
- Offset adjustment used for zero function or to make relative measurements
- Adjustable data sampling rate: 1 to 3600 seconds
- Type K/J Thermocouple input for temperature measurements (probes sold separately)
- Large backlit LCD display
- Record/Recall MIN, MAX readings, Data Hold, and Auto power off functions

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
UVA Range	2mW/cm², 20mW/cm²	0.001mW/cm²	±4% FS
UVC Range	2mW/cm², 20mW/cm²	0.001mW/cm²	±4% FS
Frequency Bandwidth	365nm (UVA); 254nm (UVC)		
Type K Temperature	-148 to 2372°F (-100 to 1300°C)	0.1°F/°C	±(0.4%±1.8°F/1°C)
Type J Temperature	-148 to 2192°F (-100 to 1200°C)	0.1°F/°C	±(0.4%±1.8°F/1°C)
Memory	Manual: 99 data readings; Includes SD memory card for datalogging		
Dimensions/ Weight	7.2 x 2.9 x 1.9" (182 x 73 x 47.5mm)/ 16.2oz (475g)		

ORDERING	
SDL470 Ⓝ	UVA/UVC Light Meter/Datalogger
TP875	Type K Thermocouple Bead Wire Temperature Probe -58 to 1000°F (-50 to 538°C)

CALIBRATION TRACEABLE TO **NIST**

LT40 LED Light Meter

Measures the light intensity of white LED lights
- Measure white LED and Standard Lighting in Lux or Foot-Candle (Fc) units
- 4000 count display
- Min/Max Average
- Cosine and color corrected measurements
- Auto Power off
- 1 year warranty
- Complete with built-in sensor with protective cover, 2 AAA batteries, and pouch

LED Light meters are used for monitoring and optimizing environmental light levels in buildings, schools, and offices.

SPECIFICATIONS	
Foot-candle (Fc) Range	40, 400 4000, 40000
Lux Range	400, 4000, 40000, 400000
LED Type	white
Basic Accuracy	±3%
Dimensions	5.2x1.9x1" (133x48x23mm)
Weight	8.8oz (250g)

ORDERING	
LT40 N	LED Light Meter

LT45 Color LED Light Meter

LED Light meters are used for monitoring and optimizing environmental light levels in buildings, schools, and offices
- Measure white, red, yellow, green, blue, and purple LED lights and Standard Lighting in Lux or Foot-Candle (Fc) units
- Manually store/recall up to 99 readings
- 4000 count display
- Min/Max Average
- Cosine and color corrected measurements
- Auto Power off
- 1 year warranty
- Complete with light sensor with protective cover and coiled cable expandable to 59" (1.5m), 9V battery, and hard case

SPECIFICATIONS	
Foot-candle (Fc) Range	40, 400 4000, 40000
Lux Range	400, 4000, 40000, 400000
LED Type	white, red, yellow, green, blue, purple
Basic Accuracy	±3%
Dimensions	5.1x2.2x1.5" (130x55x38mm)
Weight	8.8oz (250g)

ORDERING	
LT45 N	Color LED Light Meter

SOUND *LEVEL DATALOGGERS*

407730 Digital Sound Level Meter

Analog bargraph with 30dB range updates every 40ms

- ±2dB accuracy with 0.1dB resolution
- Analog AC output for connection to chart recorders and dataloggers
- Record MAX/MIN values over time
- Auto power off and MAX Hold functions
- Utilizes 0.5" (12.7mm) condenser microphone
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Complete with microphone wind screen and four AAA batteries

Unrivaled Selection

No one offers a better selection of sound level meters than Extech. With models for every application, capabilities include Type 2 compliance, calibration traceable to N.I.S.T., PC connectivity, datalogging, octave band analyzer, ultra compact and wall-mounted designs, and personal dosimeters (See pages 120-125).

ACCESSORIES	
TR100	Tripod (for meters with Tripod mount feature)
40705X	AC/DC Recorder Output Cable
407744 **N**	94dB Sound Calibrator (0.5", 1" microphones)
407766 **N**	94/114dB Sound Calibrator (0.5", 1" microphones)

Sound Level Calibrators
- Calibrate and verify Sound Meter operation
- 1kHz sine wave at 94dB/114dB (407766) or 94dB (407744) is generated to an accuracy of ±5% (frequency) and ±0.5dB (94dB); ±0.8dB (114dB)
- For use with both 0.5" to 1.0" microphones
- For use with all Extech Sound Level Meters
- Includes screwdriver, batteries, and case
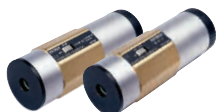
SPECIFICATIONS	407730 **N**
Range	40 to 130dB
Basic Accuracy	±2dB
Weighting (A&C)	Yes
Response Time (Fast/Slow)	Yes
Condenser Microphone	0.5" (12.7mm)
Analog Output	AC
CE approved	Yes
Dimensions	9x2.2x1.7" (230x57x44mm)
Weight	5.6oz (160g)
Warranty	1 year

CALIBRATION
TRACEABLE TO *NIST*

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

407732 Type 2 Sound Meter

Two range meter with backlit LCD display

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- High & Low measuring ranges
- Data Hold and MAX Hold functions
- Backlit display to view in dimly lit area
- Complete with microphone wind screen and 9V battery
- Optional 407732-NISTL includes Certificate of Calibration Traceable to NIST at single point calibration to 94dB

407732-KIT Type 2 Sound Meter Kit

Digital sound level meter with 94dB sound calibrator and carrying case

KIT includes:

- Model 407732 with high accuracy meets ANSI, and IEC Type 2 standards (see product features on the left)
- Model 407722 Calibrator calibrates and verifies sound level meter operation
- Durable double molded housing
- Total Harmonic Distortion (THD) <2% at 94dB
- Complete with 407732 Sound Meter, 407722 Sound Calibrator, and protective hard carrying case (Optional NIST traceable certificate available for kit: 407732-KIT-NIST includes 407732-NISTL and 407722-NIST) - see for ordering info

407736 Type 2 Sound Meter with Calibration Check

Two range meter with analog outputs

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- High and Low measuring ranges
- MAX Hold with reset button
- Built-in calibration check (94dB)
- Analog AC/DC outputs for connection to an analyzer or recorder
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Complete with microphone wind screen, 9V battery, and carrying case

407732 N	407732-KIT N	407736 N
Low: 35 to 100dB, High: 65 to 130dB	Low: 35 to 100dB, High: 65 to 130dB	Low: 35 to 90dB; High: 75 to 130dB
±1.5dB (Type 2)	±1.5dB (Type 2)	±1.5dB (Type 2)
Yes	Yes	Yes
Yes	Yes	Yes
0.5" (12.7mm)	0.5" (12.7mm)	0.5" (12.7mm)
—	—	AC/DC
Yes	Yes	Yes
8.2x2.1x1.25" (210x55x32mm)	Meter: 8.2x2.1x1.25" (210x55x32mm)	9.5x2.7x1" (241x69x25mm)
8.1oz (230g)	Meter: 8.1oz (230g)	7.6oz (215g)
1 year	1 year	1 year

SOUND LEVEL DATALOGGERS

Features Record and Alarm LEDs, tripod, and USB connectivity

Watch the
Video
www.extech.com/video

Sound Investment

Monitor and analyze workplace and equipment sound levels to ensure OSHA compliance.

407750 Sound Level Meter with PC Interface

Big backlit display, PC interface & background sound absorber

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Background noise absorber for noise measurements with high ambient noise levels
- PC interface for capturing data to PC, optional Windows® compatible software (407752)
- Large backlit display with analog bargraph
- Auto/Manual ranging and MIN/MAX readings
- Analog AC/DC outputs for connection to a recorder
- Tripod mount (optional TR100 Tripod — sold separately)
- Complete with microphone wind screen, 9V battery and case

407760 USB Sound Level Datalogger

High accuracy datalogging of up to 129,920 records

- Designed to meet ANSI and IEC 61672 Class 2 standards
- USB interface for easy setup and data download
- Selectable data sampling rate
- Records readings with real time clock
- Two start methods: programmed (from PC) or manual
- Tripod mount feature
- Complete with 3.6V Lithium battery (42299), Windows® com patible software, USB cover, tripod, and windscreen

ACCESSORIES	
407744 N	94dB Sound Calibrator (0.5", 1" microphones)
407766 N	94/114dB Sound Calibrator (0.5", 1" microphones)
TR100	Tripod (for meters with Tripod mount feature)
40705X	AC/DC Recorder Output Cable (3ft/0.9m)
407764-EXT	15ft (4.7m) Microphone Extension Cable (for 407780A)
USB100	RS-232 to USB adaptor
42299	3.6V Lithium Battery 9pk of 2)
AC Adaptors for 407780A and 407790A	
144118	110V AC Adaptor
144220	220V AC adaptor
144240	240V AC adaptor
UA100-240	100-240V AC Adaptor w/4 plugs (US, EU, UK, AU)

N NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** next to product part numbers.

SPECIFICATIONS	407750 N	407760 N
Range	30 to 130dB	30 to 130dB
Basic Accuracy	±1.5dB (Type 2)	±1.4dB (Type 2)
Weighting (A & C)	Yes	Yes
Response Time (Fast/Slow)	Yes	Yes
Condenser Microphone	0.5" (12.7mm)	0.5" (12.7mm)
Analog Output	AC/DC	—
PC Interface	Yes	Yes
Datalogging	—	129,920 Records
CE approved	Yes	Yes
Dimensions/Weight	10x3.1x1.5" (256x80x38mm)/8.5oz (240g)	5.1x1.1x0.9" (130x30x25mm)/1oz (20g)
Warranty	1 year	1 year

CALIBRATION
TRACEABLE TO **NIST**

N Indicates products that are available with optional calibration traceable to **NIST.** See page 160 for a complete listing.

HD600 20,000 Point Datalogging Sound Level Meter

Double Molded housing with USB port

- ±1.4dB accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Capture up to 10 readings/sec when connected to a PC
- Datalogging capability up to 20,000 records at speeds from 1/sec to 1/59sec
- Records readings with real date and time stamp
- MIN/MAX and Data Hold
- USB port includes PC software
- Tripod included for convenient field use
- Auto power off with disable capability
- Complete with AC Adaptor, Windows® compatible software with USB cable, wind screen, tripod, built-in stand, hard carrying case, and 9V battery

SDL600 Data Logging Sound Level Meter with SD Card

Datalogging capability using SD memory card

- ±1.4dB accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Auto or Manual ranging
- External data storage in Excel® format on an SD card (included) for easy transfer to a PC
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with date and time stamp
- Internal memory stores 99 readings manually
- Min/Max, Peak Hold, and Data Hold functions
- Auto power off with disable capability
- Complete with SD Card, wind screen, 6 AA batteries, and hard carrying case; Optional AC Adaptor UA100-240

407780A Integrating Sound Level Datalogger with USB Interface

Leq and SEL measurements with built-in datalogger and PC interface

- Meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Datalogs up to 32,000 records
- Programmable integrating time; Real time calendar/clock
- Linearity over wide range (100dB)
- Display modes: SPL, SPL MIN/MAX, SEL, and Leq
- Impulse/Fast/Slow response time
- Analog and alarm output can be used to connect with Frequency analyzers and chart recorders
- Tripod mount (optional TR100 Tripod — sold separately)
- Includes windscreen, adjustment screwdriver, USB cable, Windows® compatible software, battery, and case; (Optional AC Adaptor - see p. 122)

HD600 Ⓝ	SDL600 Ⓝ	407780A Ⓝ	SPECIFICATIONS
30 to 130dB	30 to 130dB (3 ranges)	30 to 130dB	Range
±1.4dB	±1.4dB	±1.5dB	Basic Accuracy
Yes	Yes	Yes	Weighting (A & C)
Yes	Yes	Yes	Response Time (Fast/Slow)
0.5" (12.7mm)	0.5" (12.7mm)	Detachable 0.5" (12.7mm)	Condenser Microphone
AC/DC	AC	AC/DC	Analog Output
Yes	Yes	Yes	PC Interface
20,000 Records	Datalogging using SD card	32,000 Records	Datalogging
Yes	Yes	Yes	CE approved
10.9x3x2" (278x76x50mm)/12.3oz (350g)	9.8x2.9x1.9" (250X73X48mm)/18.3oz (520g)	10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)	Dimensions/Weight
3 years	3 years	1 year	Warranty

407355/SL355 Personal Noise Dosimeter Dataloggers and Kits

Measure total sound exposure over an 8-hour period
- Perform OSHA and IEC Noise accumulation surveys (meet ANSI and IEC *standards)
- Adjustable Criterion Level, Exchange Rate, and Threshold
- Includes Windows® compatible software to control setup and retrieve stored events or analyze real time measurements
- Dosimeter mode: data includes Start/Stop Time, %Dose, TWA, and Peak flags

Model 407355 Additional Features
- RS-232 interface (compatible with USB100 adaptor)
- Datalogs up to 4500 readings when used as a sound level meter
- 407355-KIT-5 available (see left caption for details)

Model SL355 Additional Features
- USB interface
- SL355-KIT-3 available - includes three SL355, 407766 calibrator, and case

SL355

407355

CE

Special Value Kit

407355-KIT-5

Each meter includes a belt clip, clip-on 0.5" microphone with 2.6ft (0.8m) cable, software, mini screwdriver, batteries, and case; 1 year warranty. **407355** also includes 9 pin to 25 pin adaptor, and RS-232 cable; **SL355** also includes USB cable. **407355-KIT-5** Dosimeter Kit includes five 407355 Dosimeters, 407766 Sound level calibrator (see p. 120), and case

SPECIFICATIONS

Sound Level Range/Resolution	407355: 70 to 140dBA / 0.1dB SL355: 60 - 130 dB / 70 to 140dB (A/C Weighting); 60 to 130dB / 93 to 133dB (C or Z (Linear) Peak); 70 to 140dB / 103 to 143dB (C or Z (Linear) Peak)
Digital Display	LCD 0.01-9999%
Criterion/Threshold Level	80, 84, 85 or 90dB/ 70-90 (1db steps)
Response Rate/Exchange Rate	Fast or Slow/ 3, 4, 5 or 6 dB
High Level Detector/Peak Flag	115dB / 140dB (also 130db for SL355)
Battery Life	approx 34 hrs
Event Storage	407355: 5 surveys; SL355: 20 surveys
Dimensions/Weight	407355: 4.2x2.5x1.3" (106x64x34mm)/ 8oz (227g) incl. batteries SL355: 3.8x2x1.4" (97x51x35mm) 4.2oz. (120g) incl.batteries

* Visit the product page at www.extech.com for a list of ANSI and IEC standards

ORDERING

407355 **N**	Noise Dosimeter/Datalogger
407355-KIT-5	Noise Dosimeter/Datalogger Kit
SL355 **N**	Noise Dosimeter/Datalogger
SL355-KIT-3	Noise Dosimeter/Datalogger
USB100	RS-232 to USB Adaptor

SL400 Personal Noise Dosimeter/Datalogger

Measure total sound exposure over an 8-hour period
- Measures frequency weighted noise exposure and peak (C, Z) sound level
- Datalogs up to 999,999 readings when used as a sound level meter with sampling times between 1 second and 24 hours
- Sound level mode: displays sound level, min/max, time-averaged sound level (Leq), peak, and sound exposure level (SEL)
- Adjustable Criterion Level, Exchange Rate, & Threshold
- One user-defined measurement setup
- Optional 94dB calibrator to perform "before" and "after" calibration checks per ANSI standards
- USB interface with Windows® compatible software to control setup and retrieve stored events or analyze real-time measurements

NEW

Includes belt clip, clip-on 0.5" (12.7mm)microphone with 32" (81.3cm) cable and windscreen, 9V battery, software, USB cable, and carrying case; 1 year warranty

SPECIFICATIONS

Ranges (A, C, Z)	30 to 90 dB, 50 to 110dB; C, Z Peak: 70 to 140dB / C and Z Peak: 90 to 143dB
Response Rate/Exchange Rate	Fast, Slow, Impulse/ 3, 4, 5 or 6 dB
Bandwidth	20Hz to 8kHz
Memory	Dose: 10,000 points/SLM: 999,999 points
Criterion Level / Threshold Level	30 to 140dB in 0.1dB steps / 30 to 140dB in 0.1dB steps
Measurement Modes	%Dose, Lxmax, Lxyp, Lxmin, Lxeq, SEL (LAE), PeakMAX, LAVG, TWA, LEP, LN% SPL, Lxmax, Lxyp, Lxmin, Lxeq, SEL (LAE) PeakMAX
Dimensions/Weight	4.2 x 2.6 x 1.3" (107 x 65 x 33mm) - exclude connector on top/ 7oz. (198g) include batteries and microphone cable

ORDERING

SL400 **N**	Noise Dosimeter/Datalogger

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.*

SL130G Sound Level Alert with Alarm

Continuous monitoring of Sound Level — Built-in LEDs alert user when sound level is too high or too low

- Bright LEDs (red flashing or green) alert user when sound level is too high or too low – LEDs can be read from 30m (100ft)
- Ideal for hospital, auditoriums, schools and other areas where there is a need for being alerted when sound level reaches set point
- Meets ANSI Type 2 and EN IEC 60651 standards — compliant with OSHA
- Wall, desk or tripod mount (optional TR100 tripod — sold separately)
- Adjustable high/low limit indication with output to drive user's external relay module
- Microphone rotates 180° for desired placement. Optional 15ft (5m) microphone extension cable (SL125) for remote monitoring
- 1 year warranty
- Complete with universal AC adaptor and microphone wind screen

SPECIFICATIONS

Display	4.6 x 3.125" (117x79mm) multifunction LCD
Frequency bandwidth	31.5 Hz to 8 kHz
Microphone	0.5" Electret Condenser Microphone (detachable)
Measurement ranges	30 to 80dB, 60 to 110dB, 80 to 130dB
Frequency weighting	'A' and 'C'
Response time	Fast: 125ms / Slow: 1s
Resolution	0.1dB
Alarm output	3.5mm Mono Phone Plug, Maximum: 3.4mA @ 5 VDC
Minimum Output	Voltage: 2.5 VDC
Power	AC/DC Adaptor for full functions; 8xAA batteries for monitoring function only without LED alert
Dimensions/Weight	8.75x7.1x1.25" / 0.63 lbs. (22x18x3.2cm / 285g)

ORDERING

SL130G N	Sound Level Alert
SL125	Remote Microphone cable 15' (5m)
TR100	Tripod
407766 N	Sound Level Calibrator, 94/114dB

407790A Real Time 1/3 Octave Band Analyzer

Type 2 integrating sound level meter with Octave and 1/3 Octave Band Real Time display on 160x160 dot matrix backlit LCD

- Stores 12,280 records in SLM mode and 1024 points in 1/1 or 1/3 octave mode
- Transferred data to a PC to be analyzed using software and cable provided
- A, C, Flat weighting; Fast/Slow response time
- Detachable 0.52" (13.2mm) diameter condenser microphone and Tripod mount
- Real time clock with Year, Month, Day, Hour, Minute, and Second display
- Maintain noise level statistics for internal and external audits

Includes Windows® compatible software, USB cable, 4 x C batteries, microphone wind screen, mini screwdriver, 120V AC adaptor, and case. See p. 122 for 220-240V Adaptor; 1yr warranty; Optional 94/114dB calibrator (see 407766 on p. 120)

SPECIFICATIONS

Applicable standards	ANSI S1.4 Type 2, EN IEC 60651, EN IEC 60804, and EN IEC 1260-1995
Accuracy	±1.5dB (ref 94dB @ 1kHz)
Measurement range/function	30dB to 130dB / La, Lc, Lp, Leq, LE, Lmax, Lmin
Frequency range	25Hz ~ 10kHz
Sound level meter display	Integrating SLM: Digital, 4 Digits with Bargraph
Real Time Analyzer display	Graphical, Bargraph with cursor
1/1- 1/3 Analyzer level range	30 to 130dB
1/1 Octave & 1/3 Octave	1/1 Octave band center frequencies: (9 bands); 1/3 Octave band center frequencies: (27 bands)
Signal output	AC output: 2 Vrms (at full scale); DC output: 10mVDC/dB
Dimensions/Weight	13.6x3.9x2.4" (345x100x60mm)/ 33.5oz (950g)

ORDERING

407790A N	Octave Band Sound Analyzer
407764-EXT	15ft (4.7m) Microphone Extension Cable

EXTECH® INSTRUMENTS

Rev Up Your Diagnostics

Measure RPM, surface speed, and revolution counts with Extech tachometers (see pages 126-129). Models include contact, non-contact and combination, as well as compact, stroboscopes and panel-mount versions.

461937

461990

461891 Contact Tachometer

Fast and accurate RPM and surface speed measurements

- Make contact measurements of rotating objects
- Measure linear surface speeds in ft/min or m/min using three accessory wheels provided
- Recalls Last/MAX/MIN values
- Complete with cone tip, flat tip and spare wheel for surface speed measurements, four 1.5V AA batteries, and carrying case

461893 Non-contact Photo Tachometer

Non-contact RPM measurements using visible light

- Make non-contact rpm measurements of rotating objects
- Use reflective tape on object to be measured and point the integral light beam
- Integral light beam has an ideal measurement range up to 6" (152mm) distance
- Readings updated every second
- Recalls Last/MAX/MIN values
- Complete with 23" (0.6m) reflective tape, four 1.5V AA batteries, and carrying case

ACCESSORIES	
461937	Reflective Tape -Ten reflective tape strips: 23x0.25" (584x6mm) ea. strip
461990	Contact Wheels - 2 sets of cone tip, flat tip, and spare wheel

N NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** next to product part numbers.

SPECIFICATIONS	461891 **N**	461893 **N**
rpm	0.5 to 20,000	5 to 99,999
ft/min	0.2 to 6560	—
m/min	0.05 to 1999.9	—
Basic Accuracy	±0.05%rdg	±0.05%rdg
Max rpm Resolution	0.1rpm	0.1rpm
Laser	—	—
Temperature (IR)	—	—
CE approved	Yes	Yes
Dimensions	6.7x2.8x1.5" (170x27x37mm)	6.7x2.8x1.5" (170x27x37mm)
Weight	9.2oz (260g)	8.8oz (250g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

461895
Combination Contact/Photo Tachometer

Combines both contact and non-contact models for use in all applications

- Characters on display reverse direction depending on contact or photo mode
- Uses visible light to read up to 6" (150mm) from target
- Memory/readings button holds last reading for 5 min and recalls min/max readings
- Complete with wheels for linear surface speed or rpm measurements, four 1.5V AA batteries, 23" (0.6m) reflective tape, and carrying case

461995
Combination Contact/Laser Photo Tachometer

Combines both contact and non-contact models for use in all applications

- Characters on display reverse direction depending on contact or photo mode
- Laser guided for greater distance non-contact measurements up to 6.5ft (2m)
- Memory/readings button holds last reading for 5 min and recalls MAX/MIN readings
- Complete with wheels for linear surface speed or rpm measurements, four 1.5V AA batteries, 23" (0.6m) reflective tape, and carrying case

RPM10
Combination Laser Tachometer + IR Thermometer

Photo/Contact Tachometer includes a non-contact IR Thermometer for surface temperature measurements

- Built-in IR thermometer with laser measures remote surface temperature on motors and rotating parts
- Fixed 0.95 emissivity, 6:1 distance to target ratio
- Non-contact Photo tachometer uses a Laser for greater measuring distance up to 6.5ft (2m)
- Contact tachometer for RPM and surface speed measurements
- Recalls Last/MAX/MIN values
- Characters on display reverse direction depending on mode
- Complete with tips/wheel, four 1.5V AA batteries, reflective tape, and carrying case

461895 N	461995 N	RPM10 N	SPECIFICATIONS
Photo: 5 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 20,000	rpm
0.2 to 6560	0.2 to 6560	0.2 to 6560	ft/min
0.05 to 1999.9	0.05 to 1999.9	0.05 to 1999.9	m/min
±0.05%rdg	±0.05%rdg	±0.05%rdg	Basic Accuracy
0.1rpm	0.1rpm	0.1rpm	Max. rpm Resolution
—	Yes	Yes	Laser
—	—	-4 to 600°F (-20 to 315°C)	Temperature (IR)
Yes	Yes	Yes	CE approved
8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	Dimensions
10.6oz (300g)	10.6oz (300g)	10.6oz (300g)	Weight
1 year	1 year	1 year	Warranty

461920 Mini Laser Photo Tachometer Counter

Non-contact RPM and Revolution count measurements to 99,999 rev
- Measure non-contact RPM readings of rotating objects by pointing the integral laser at the reflective tape placed on the object to be measured
- Large 5 digit LCD display with backlighting
- Rugged double molded housing with memory button for Last/MAX/MIN readings
- 1 year warranty
- Complete with 9V battery and reflective tape

Measures the speed (RPM) of rotating objects and counts (revolution) of moving objects.

SPECIFICATIONS

RPM range	2 to 99,999 rpm
Count range	1 to 99,999 rev (revolution)
Target Distance	1.6ft (500mm)
Basic Accuracy	±0.05%
Resolution	0.1rpm, 1 count
Dimensions/Weight	6.2x2.3x1.6" (160x60x42mm)/5.3oz (151g)

ORDERING

461920 N	Mini Laser Photo Tachometer Counter
461937	Spare reflective tape (23" each strip), 10pk

RPM33/RPM40 Mini Combination Contact/Laser Photo Tachometers

NEW

Quickly measure RPM, surface speed and length with one tool. Use the contact wheel for up-close readings or laser mode for non-contact readings.
- Large 5 digit backlit LCD display
- Microprocessor based with quartz crystal oscillator to maintain high accuracy
- Provides wide RPM (photo and contact) and Linear Surface Speed/Length (contact) measurements
- Includes contact wheel, batteries, and reflective tape; 1 year warranty; RPM33 also includes case; RPM40 also includes cone tip

Model RPM33 Additional Features
- Store/recall 10 data sets in memory with 4 parameters (measurement/max/min/avg)
- Laser guided for greater distance non-contact measurements up to 1.6ft (500mm)

Model RPM40 Additional Features
- Long distance Laser guided measurements up to 4.9ft (1.5m)

RPM33

RPM40

SPECIFICATIONS	RPM33	RPM40
Range (rpm)	Photo: 2 to 99,999rpm Contact: 2 to 20,000rpm	Photo: 5 to 99,999rpm Contact: 0.5 to 19,999rpm
Surface Speed	0 to 78,720 inches/min	2.0 to 78,740 inches/min
	0 to 6560 ft/min	0.2 to 6560 ft/min
	0 to 2186 yards/min	—
	0 to 2000 m/min	0.05 to 1999.9 m/min
Length	3.9 to 39370 inches	—
	0.3 to 3280 feet	—
	0.1 to 1093 yards	—
	0.1 to 1000 meters	—
Frequency (Hz)	333 Hz	—
Accuracy	0.05% rdg +1 digit	±(0.1% rdg +1 digit)
Sampling Time	0.5 Sec > 120rpm	1 Sec > 6rpm
Resolution	0.1rpm (<10,000 rpm); 1rpm (>10,000 rpm)	0.1rpm (<1000 rpm); 1rpm (>1000 rpm)
Dimensions / Weight	6.2x2.3x .6"(160x60x42mm) / 5.3oz (151g)	6.2x2.0x1.3" (160x50x33mm) / 6.4oz (182g)

ORDERING

RPM33 N	Combination Contact/Laser Photo Tachometer
RPM40 N	Combination Contact/Laser Photo Tachometer
461937	Spare reflective tape (23" each strip), 10pk

Contact RPM measurement

Laser Photo RPM measurement

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.*

EXTECH
INSTRUMENTS

461825 Combination Photo Tachometer/Stroboscope

Stroboscope to analyze rotating objects and Tachometer to measure rpms
- Course and fine flash rate adjustments to freeze and analyze rotating objects
- Unique display characters that reverse direction depending on function mode
- Large 0.4" (10mm) 5 digit LCD display and memory stores Last/MAX/MIN readings
- Complete with four 1.5V AA batteries, reflective tape, and case; 1 year warranty

SPECIFICATIONS	PHOTO TACHOMETER (RPM)	STROBOSCOPE (FPM/RPM)
Range	5 to 99,999	100 to 100,000
Accuracy	±0.1%rdg	±0.1%rdg
Sampling Time	1 Sec ≥ 60rpm;	1 Sec ≥ 60rpm;
Resolution	0.1rpm (<1,000rpm), 1rpm (≥1,000rpm)	0.1fpm (<1,000fpm), 1fpm (≥1,000fpm)
Dimensions/Weight	8.5x2.6x1.5" (215x65x38mm) / 10.6oz (300g)	±0.1%rdg

Ordering	
461825 N	Combination Photo Tachometer/Stroboscope
461937	Spare reflective tape (23" each strip), 10pk

461830/461831 Digital StroboTach

Freeze motion and analyze rotating objects without contact
- Checks and analyzes motion and speed by simply aiming and synchronizing its flash rate (fpm) with a rotating object
- rpms on 4 digit LED display
- Flash/Speed Rate of 100 to 10,000fpm/rpm; Basic accuracy of ±0.05% rdg
- Duty Cycle of 5 to 30mins
- Tripod mount for stationary use
- Dimensions/Weight: 8.3x4.8x4.8" (211x122x122mm)/2.2lbs (1kg)
- Complete with 6ft (1.9m) power cord and handle; 1 year warranty

461834

ORDERING	
461830 N	Digital StroboTach 115VAC, 60Hz
461831 N	Digital StroboTach 220VAC, 50Hz
461834	Spare Xenon Lamp (est life 300hrs), 2pk

461950 1/8 DIN Panel Tachometer

Continuous & accurate readings from 5 to 99,990rpm
- Large LED display updates 1/sec (rpm<60)
- Unique design permits rpm measurements of a one hole gear or disk eliminating the need for special gears
- A pulse is measured when a ferrous object (stud) passes by a proximity sensor
- Choice of two sensor pickup types (both include 6ft/1.8m cable): Proximity sensor: 0.1" (3mm) target distance, range up to 36,000rpm (600Hz); Photoelectric sensor: 0.4" (10mm) target distance, range up to 6000rpm (100Hz)
- 1 year warranty

461957
Photoelectric

461955
Proximity

SPECIFICATIONS	
rpm	5 to 99,990rpm
Basic accuracy	±0.05%
Resolution	0.1rpm (5 to 1000rpm), 1rpm (1000 to 9999rpm), 10rpm (10,000rpm to 99,990rpm)
Power	115V or 230V AC; 50/60Hz
Dimensions/Weight	Bezel 3.8x1.9x2.4" (96x48x60mm); Panel cutout 3.6x1.8" (92x45mm) Meter 3.6x3.5x1.7" (92x90x42mm)/ 14oz (397g)
Sampling Time	1sec>60rpm, >1sec>10 to 60rpm
Dimensions/ Weight	4.9x2x1.3" (124x50x33mm)/ 4oz (114g)

ORDERING	
461950 N	1/8 DIN Panel Mount Tachometer
461955	Proximity Sensor, max. 36,000rpm
461957	Photoelectric Sensor, max. 6000rpm

HDV600 Series High Definition VideoScope Inspection Cameras

Narrow diameter cameras with 5.7" High Definition Color LCD Monitor deliver high image and video resolution on large color display

- The HDV600 Series VideoScope has various camera probes to fit your application needs. Choose from a range of sizes with articulating or wireless features.
- 5.7" color LCD TFT — high definition 640x480 pixels resolution
- Waterproof (IP67) meter and camera head (IP57) with cable
- Bright white LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view and 6" (15.2cm) minimum focus distance
- 2G SD memory card included to store >14,600 images
- Video recording (up to 4 hours) with Voice annotation
- Video and images can be transferred via the SD card, USB output or AV out
- An optional wireless transmitter (HDV-WTX) connects to your camera cable and allows you to transmit video up to 100ft (30m)
- 1 year warranty
- Complete with SD memory card, 3.7V rechargeable Li-Polymer battery, AC adaptor, USB and AV cables, camera with cable, and case
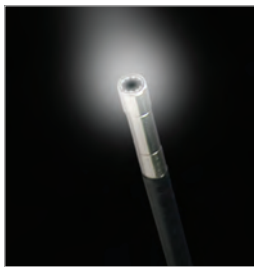
Camera Tip features built-in LED lights

HDV-WTX Wireless Transmitter allows measurements up to 100ft (30m) away

CE IP67 Waterproof Dustproof

Model HDV610
- VideoScope with 5.5mm diameter camera head (1m flexible cable)

MODEL HDV620
- VideoScope with 5.8mm diameter camera head (1m semi-rigid cable retains configured shape)

Model HDV640 & HDV640W
- VideoScope with 6mm diameter camera head (1m semi-rigid cable retains configured shape)
- Easy knob control of the articulating camera tip facilitates viewing in obstructed areas where standard camera tips cannot access.
- 240° camera probe rotation (from straight position, 120° left and 120° right)

MODEL HDV640W
- Built-in wireless transmitter in camera cable controller allows you to transmit video up to 100ft (30m) from the measurement point to your monitor

HDV650 Series — High Definition Plumbing VideoScope Inspection Cameras

Plumbing VideoScope Kits utilized the HDV600 color LCD monitor. From drains to pipe runs, these kits reveal problems with its large, waterproof, rugged, high definition color display and a 10m or 30m snake with 25mm diameter camera head. Built-in bright lights help illuminate the problem area deep within the pipe runs. The camera probe is rugged enough to dislodge small clogs. Ideal for inspecting P-traps, 90s, drains, pipe runs, sewers, vent stacks and more. Available in a wireless kit that allows you to transmit video up to 100ft (30m) from the measurement point to your monitor.

HDV650 Kits:

- **HDV650-10G** includes HDV600 and 10m fiberglass cable spool assembly
- **HDV650W-10G** includes HDV600, 10m fiberglass cable spool assembly and wireless transmitter
- **HDV650-30G** includes HDV600 and 30m fiberglass cable spool assembly
- **HDV650W-30G** includes HDV600, 30m fiberglass cable spool assembly and wireless transmitter

N Indicates products that are available with optional calibration traceable to **NIST.** *See page 160 for a complete listing.*

Articulating (6mm diameter) camera tip adjusts up to 240° viewing angle.

Drop-proof and Waterproof housing meets IP67 standards.

Watch the
Video
www.extech.com/video

Macro (Short Focal Length) Lenses permit you to examine features and attributes that are up-close to the optical camera tip as illustrated above. **Long Focus Lenses** permit you to see further in confined areas.

Macro Lens
0.59" - 2.36"
(20 - 60 mm)

Long Focus Lens
2.36" - ∞
(60 mm - ∞)

Unlimited Inspection Uses:

Home: Mold, insect infestation, electrical wire or plumbing

HVAC: Ducts, motors, compressors, air movers, and chillers

Automotive: Engines, transmissions, motors, electronics

Government: Safety and security

Industrial: Welding, process equipment, gears, molding machines

Aerospace: Aircraft, debris, cracks or other damages

And more…

BRD10 - Optional Wireless USB Video Receiver allows user to stream live video to a PC and it can also be remotely viewed via VOIP connection.

ORDERING

Video Inspection Camera Kits	
HDV610	High Definition VideoScope (5.5mm diameter camera/1m flexible cable)
HDV620	High Definition VideoScope (5.8mm diameter camera/1m semi-rigid cable)
HDV640	High Definition Articulating VideoScope (6mm diameter camera/1m semi-rigid cable)
HDV640W	High Definition Wireless Articulating VideoScope (6mm diameter camera /1m semi-rigid cable)
Plumbing Inspection Camera Kits	
HDV650-10G	Plumbing VideoScope Kit (25mm camera head w/10m Fiberglass Cable)
HDV650W-10G	Wireless Plumbing VideoScope Kit (25mm camera head w/10m Fiberglass Cable)
HDV650-30G	Plumbing VideoScope Kit (25mm camera head w/30m Fiberglass Cable)
HDV650W-30G	Wireless Plumbing VideoScope Kit (25mm camera head w/30m Fiberglass Cable)
Video Inspection Monitor (order camera head separately from accessories list below)	
HDV600	High Definition VideoScope (meter only)
Optional Camera Heads	
HDV-TX1	6mm Articulating VideoScope Camera Head with Macro lens and 1m Semi-Rigid Cable
HDV-TX1L	6mm Articulating VideoScope Camera Head with Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1	6mm Wireless Articulating VideoScope Camera Head w/Macro lens and 1m Semi-Rigid Cable
HDV-WTX1L	6mm Wireless Articulating VideoScope Camera Head w/Long Focus lens and 1m Semi-Rigid Cable
HDV-TX2	6mm Articulating VideoScope Camera Head w/Macro lens and 2m Semi-Rigid Cable
HDV-TX2L	6mm Articulating VideoScope Camera Head w/Long Focus lens and 2m Semi-Rigid Cable
HDV-WTX2	6mm Wireless Articulating VideoScope Camera Head w/Macro lens and 2m Semi-Rigid Cable
HDV-WTX2L	6mm Wireless Articulating VideoScope Camera Head w/Long Focus lens and 2m Semi-Rigid Cable
HDV-4CAM-5FM	4mm VideoScope Camera Head with Macro lens and 5m Flexible Cable
HDV-5CAM-1FM	5.5mm VideoScope Camera Head with Macro lens and 1m Flexible Cable
HDV-5CAM-3F	5.5mm VideoScope Camera Head with long depth of field and 3m Flexible Cable
HDV-5CAM-3FM	5.5mm VideoScope Camera Head with Macro lens and 3m Flexible Cable
HDV-5CAM-30FM	5.5mm VideoScope Camera Head with Macro lens and 30m Flexible Cable
HDV-5CAM-10F	5.5mm VideoScope Camera Head with long depth of field and 10m Flexible Cable
HDV-25CAM-10G	25mm VideoScope Camera Head with long depth of field and 10m Fiberglass Cable
HDV-25CAM-30G	25mm VideoScope Camera Head with long depth of field and 30m Fiberglass Cable
HDV-WTX	Wireless Transmitter
HDV-PC	Spare Patch Cable for HDV Series
ADPTR-HDV	Replacement AC Adaptor
BRD10	Wireless USB Video Receiver

HDV540 High Definition Articulating VideoScope Kit

Articulating (240°) camera tip facilitates viewing in obstructed areas where standard camera tips cannot access

- Includes wired handset with non-detachable 6mm flexible probe (1m) with macro lens
- Articulating probe tip adjusts up to 240° viewing angle
- 3.5" (89mm) color LCD TFT with high definition 320 x 240 pixel resolution
- Compact, high-resolution water-proof (IP67) camera probe
- Camera head with four built-in bright LED lamps and dimmer to illuminate viewed object
- Glare-free close-up field of view
- Store more than 20,000 images on 4GB SD card
- AV output for viewing images/video on a monitor
- Video and images can be transferred to a PC via the SD card or USB output
- Record voice-over audio in video recording mode
- Includes HDV500 videoscope, handset with 6mm Articulating VideoScope Camera Head, SD card, 3.7V rechargeable Li-Polymer battery, 100/240V Universal AC adaptor and multiple plug types (US, EU, UK, AUS), USB and AV cables, and hard carrying case

NEW

Wired handset and camera probe with easy one-hand operation of the articulating tip for best viewing angle. Tip rotates to 120° to the left and to the right. Images/videos are viewed on the color display or external monitors and can be stored in SD card or a USB flash drive.

SPECIFICATIONS	
Camera	
Focus distance	0.8 to 2.36" (2 to 6cm)
Field of View	57°
Shaft diameter	0.24" (6mm)
Working length	39" (1m)
Camera Tip bend radius	240° (120° left, 120° right)
Borescope	
LCD Color TFT Display/ Pixels	3.5" (8.9cm) size/ 320 x 240 pixel resolution
Frame Rate	30 fps frame rate (NTSC & PAL)
SD Card	4GB SD memory card included (supports up to 32GB SD storage)
Operating	up to 6 hours AVI video
Dimensions/Weight	Meter w/battery: 8.3x4.3x1.6" (21cmx11cmx4cm)/ 14.1oz (400g)

ORDERING	
HDV540	High Definition Articulating VideoScope Kit
HDV5-6CAM-1AFM	6mm Articulating VideoScope Camera Head with Macro lens and 1m Flexible Cable

CALIBRATION TRACEABLE TO NIST

132 N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

BR200/BR250 Video Borescope/Wireless Inspection Cameras

3.5" Color Detachable Wireless LCD Monitor can be viewed from a remote location up to 32ft (10m) from measurement point

- Captured video with date/time stamp can be played back on the wireless monitor or on any monitor with a video input jack
- Video and images can be transferred to a PC via microSD card or USB cable and viewed using Windows® Multimedia Player
- Waterproof (IP67) flexible gooseneck retains configured shape
- NTSC operation with menus in 10 languages
- Close-up field of view; 1 year warranty
- Includes 4 AA batteries, rechargeable display battery, memory card with adaptor, USB cable, extension tools (mirror, hook, magnet) video interconnect cable, AC adaptor, magnetic base stand, and hard case
- **Model BR200** —17mm diameter camera head with built-in two bright LED lamps with dimmer and 39" (1m) flexible gooseneck cable
- **Model BR250** — 9mm diameter camera head with built-in four bright LED lamps with dimmer and 36" (0.9m) flexible gooseneck cable

NEW
Reduced Price!

CE

BRD10 Wireless USB Video Receiver
Optional Wireless USB Video Receiver allows user to stream live video from your Video Borescope to a PC and it can also be viewed remotely via VOIP connection.

Detachable wireless 3.5" color display can be viewed remotely from up to 32ft (10m). Camera features built-in LED lights.

Watch the **Video**
www.extech.com/video

SPECIFICATIONS

Camera Pixels	BR200: 712x486 (NTSC) / BR250: 640 x 480 (NTSC)
Transmission Frequency/ Range	2468MHz/ 32ft (10m) unobstructed view
Camera Viewing direction	BR200: Viewing Angle 50° / BR250: Viewing Angle 45°
Camera Viewing distance	5.9 to 9.8" (15 to 25cm)
LCD Screen Type/ Pixels	3.5" TFT/ 320 x 240
Monitor Video Output Level	0.9 to 1.3V@75Ω
Monitor Video/Image Resolution	960 x 240 (AVI format)/640 x 480 (JPEG format)
Operating/Charge Time	1.5hrs/3hrs
Dimensions/Weight	Camera: 7.3x5.7x1.6" (186x145x41mm)/18.7oz (530g) Monitor: 3.9x2.7x1" (100x70x25mm)/4.9oz (140g)

ORDERING

BR200	Flexible Video Borescope (17mm diameter/1m cable)
BR250	Flexible Video Borescope (9mm diameter/1m cable)
BRD10	Wireless USB Video Receiver
BR200-EXT	Borescope Extension Cable (19mm diameter/0.9m cable)
BR-4CAM	4.5mm Borescope Camera Head with 1m Cable
BR-5CAM	5.8mm Borescope Camera Head with 1m Cable
BR-9CAM	9mm Borescope Camera Head with 1m Cable
BR-9CAM-2M	9mm Borescope Camera Head with 2m Cable
BR-9CAM-5M	9mm Borescope Camera Head with 5m Cable
BR-17CAM	17mm Borescope Camera Head with 1m Cable
BR-17CAM-2M	17mm Borescope Camera Head with 2m Cable
BR-17CAM-5M	17mm Borescope Camera Head with 5m Cable
UA100-BR	Universal AC Adaptor

Note: Recommended up to two BR200-EXT connected to a Borescope to maintain resolution)

BR100/BR150 Video Borescope Inspection Cameras

BR100
17mm camera head

BR150
9mm camera head

NEW
Reduced Price!

9mm or 17mm camera diameter and 2.4" Color TFT LCD Monitor with video output for viewing on any monitor with a video input jack
- 39" (1m) flexible gooseneck cable retains configured shape
- Mini water-proof (IP67) camera head for high resolution viewing
- Display detaches for easy storage
- 1 year warranty
- Complete with camera head with cable, 4 AA batteries, extension tools (mirror, hook, magnet), video output jack, and hard case
- Optional BR200-EXT extension cable & accessories available

Model BR100 Additional Features
- 17mm camera diameter with 2 bright LED lamps and dimmer feature

Model BR150 Additional Features
- 9mm camera diameter with 4 bright LED lamps with and dimmer feature

SPECIFICATIONS

Camera	
Viewing direction	BR100: Viewing Angle 50°; BR150: Viewing Angle 45°
Focus distance from object	5.9" to 9.8" (15 to 25cm)
Minimum bend radius	2.36" (60mm)
Dimensions/Weight	7.3 x 5.7 x 1.6" (186 x 145 x 41mm)/18.7oz (530g)
Monitor	
LCD Screen Type	2.4" TFT
Pixels	480 x 234
Operating	1.5 hours
Dimensions/ Weight	3.9 x 2.7 x 1.8" (100 x 70 x 30mm)/ 4.9oz (140g)

ORDERING (SEE P. 133 FOR CAMERA HEADS WITH LONGER CABLE LENGTHS)

BR100	Flexible Video Borescope (17mm diameter/1m cable)
BR150	Flexible Video Borescope (9mm diameter/1m cable)
BR-5CAM	5.8mm Borescope Camera Head with Cable
BR-9CAM	9mm Borescope Camera Head with Cable
BR-17CAM	17mm Borescope Camera Head with Cable
BR200-EXT	Borescope Extension Cable (19mm diameter/0.9m cable)

(Note: Recommended up to two BR200-EXT connected to a Borescope to maintain resolution)

BR80 Video Borescope Inspection Camera

17mm camera diameter with 39" (1m) flexible gooseneck cable retains configured shape and 2.4" Color TFT LCD Monitor
- Water-proof (IP67) camera head and cable with lightweight, handheld design housing to easily find, diagnose, and solve problems
- Four bright LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view
- Vivid 2.4" color LCD monitor for detailed images plus 180° image rotation feature
- Optional BRC-EXT extension cable available for increasing viewing depth; 19mm diameter connector and 37.5" (0.95m) cable length (including connectors); maximum 2 extension cables can be connected to the borescope
- Complete with 17mm camera probe with cable, 4 AA batteries, and extension tools (mirror, hook, and magnet); 1 year warranty

Watch the *Video*
www.extech.com/video

ORDERING

BR80	Video Borescope Inspection Camera
BRC-17CAM	17mm Borescope Camera Head with Cable
BRC-EXT	Borescope Extension Cable (19mm diameter/0.9m cable)

(Note: Recommended up to two BRC-EXT connected to a Borescope to maintain resolution)

CALIBRATION TRACEABLE TO **NIST**

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

RF Series Portable Brix Refractometers

Measure the concentration of Sugar, Salt or industrial cutting/cooling lubricants
- Accurate, easy to operate refractometers with simple to read scales
- Automatic Temperature Compensation (RF11, RF12, RF15 and RF20 models)
- Requires only 2 or 3 drops of solution
- The prism and lens with a simple focus adjustment provide repeatable results
- Complete with case, calibration screwdriver, and calibration solution; 1 yr warranty

Sucrose (RF10, RF11, RF15, RF16, and RF18)
- Measure the concentration of sugar in fruit juice and industrial fluids

Brix (RF12 and RF18)
- Maintain proper lubricant cooling concentration to extend equipment life

Salinity (RF20)
- Measures the concentration of dissolved salt in water

General Purpose Brix (RF30)
- Triple Range: 0 to 42% Brix, 42 to 71% Brix, 71 to 90% Brix

Scale view through eyepiece

SPECIFICATIONS	TYPE	RANGES	RESOLUTION	ACCURACY
RF10	Sucrose	0 to 32% Brix	0.2	±0.2%
RF11	Sucrose (ATC)	0 to 10% (10 to 30°C)	0.1	±0.1%
RF12	Lubricants/Cutting fluids (ATC)	0 to 18% Brix (10 to 30°C)	0.2	±0.2%
RF15	Sucrose (ATC)	0 to 32% Brix (10 to 30°C)	0.2	±0.2%
RF16	Sucrose	0 to 10% Brix	0.1	±0.1%
RF18	Brix (Lubricants)	0 to 18% Brix	0.1%	±0.2%
RF20	Salt (ATC)	0 to 100ppt (10 to 30°C)	1ppt	±0.1‰
		1.000 to 1.070 Specific Gravity	0.001	±0.001
RF30	Triple Range General Service	0 to 42% Brix, 42 to 71% Brix, 71 to 90% Brix	0.2	±0.2%

ORDERING

RF10	0 to 32% Brix Refractometer - Dims/Wt: 6.6x1.3x1.3" (168x32x32mm)/ 3.2oz (91g)
RF11	0 to 10% Brix Refractometer with ATC - Dims/Wt: 7.5x1.6x1.2" (190x40x30mm)/ 6.5oz (185g)
RF12	0 to 18% Brix Refractometer with ATC - Dims/Wt: 6.7x1.6x1.2" (170x41x31mm)/ 3.2oz (91g)
RF15	0 to 32% Brix Refractometer with ATC - Dims/Wt: 6.3x1.4x1.4" (159x35x35mm)/7oz (200g)
RF16	0 to 10% Brix Refractometer - Dims/Wt: 7.5x1.6x1.2" (190x40x30mm)/ 6.5oz (185g)
RF18	0 to 18% Brix Refractometer - Dims/Wt: 6.7x1.6x1.2" (170x41x31mm)/ 3.2oz (91g)
RF20	Salinity Refractometer with ATC - Dims/Wt: 7.6x1.5x1.5" (194x38x38mm)/ 8oz (227g)
RF30	Triple Range General Service (0 to 90% Brix) Refractometer - Dims/Wt: 7.9x1.5x1.1" (200x38x28mm)/ 21.86oz (620g)

RF40/RF41 Battery Coolant/ Glycol Refractometer

Measure the % of Ethylene Glycol and Propylene Glycol
- Measures the freezing point of automotive coolants plus battery charge condition
- Provide accurate and repeatable measurements of % Ethylene Glycol and Propylene Glycol and °F on easy to read scale
- Automatic Temperature Compensation
- Requires only 2 or 3 drops of solution
- Complete with case, calibration screwdriver, and calibration solution; 1 yr warranty

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Propylene Glycol freeze point	RF40: -60°F (63%) to 32°F (12%) RF41: -50°C to 0°C	2°F (1%) 1°C	±5°F (2%)
Ethylene Glycol freeze point	RF40: -60°F (59%) to 25°F (16%) -51 to 0°C (-60 to 32°F) RF41: -50°C to 0°C	2°F (1%) 1°C/2°F 1°C	±5°F (2%)
Specific Gravity of Battery Acid	RF40/RF41: 1.15 to 1.30	0.01	
Dimensions/Weight	6.5x1.5x1.5" (165x38x38mm)/ 7oz (200g)		

ORDERING

RF40	Battery Coolant/Glycol Refractometer w/ATC (°F)
RF41	Battery Coolant/Glycol Refractometer w/ATC (°C)

SDL800/VB500 Vibration Meter/Dataloggers

Datalogs readings with date/time stamps via SD card in Excel® format for easy transfer to a PC
• Wide frequency range of 10Hz to 1kHz
• RMS, Peak Value measurement modes
• Min/Max, Zero function, Max Hold, Data Hold and Auto Power Off
• Adjustable data sampling rate: 1 to 3600 seconds
Model SDL800
• Single Channel input; includes one vibration sensor
Model VB500
• Four Channel input; includes 4 vibration sensors and Universal AC Adaptor

CE

Includes remote vibration sensor(s) with magnetic adapter, batteries, SD card, and hard case; SDL800 has 3yr warranty and optional AC Adaptor. VB500 has 1yr warranty and also includes 4 vibration sensors and 100-240V Universal AC Adaptor.

SPECIFICATIONS	
Acceleration (max res)	656ft/s^2 (1ft/s^2), 200m/s^2 (0.1m/s^2), 20.39g (0.01g)
Velocity (max res)	7.87in/s (0.01in/s), 200mm/s (0.1mm/s), 19.99cm/s (0.01cm/s)
Displacement (max res)	0.078in (0.001in), 2mm (0.001mm)
Basic accuracy	±5%
Dimensions/ Weight	SDL800: Meter: 7.2x2.9x1.9" (182X73X48mm)/Meter: 1.3lbs (599g)
	VB500: Meter: 8 x 3 x 1.5" (203 x 76 x 38mm)/ Meter: 1.13lbs (515g)

ORDERING		
SDL800		Vibration Meter/Datalogger
VB500	N	4-Channel Vibration Meter/Datalogger
UA100-240		100-240V AC Adaptor with 3 plugs (US, EU, UK, AU)

407860 Heavy Duty Vibration Meter

Includes remote sensor with 3.9ft (1.2m) cable, magnetic mount, 9V battery, holster with stand and case; 3 year warranty.

CE

Measure Velocity, Acceleration and Displacement
• Frequency range: 10Hz to 1kHz
• RMS or Peak Value measurement modes
• Auto/Manual store/recall up to 500 readings
• Max/Min, Data Hold and Auto Power off functions

SPECIFICATIONS	
Acceleration (max res)	656ft/s^2 (2ft/s^2) or 200m/s^2 (0.5m/s^2)
Velocity (max res)	7.87in/s (0.02in/s) or 200mm/s (0.5mm/s)
Displacement (max res)	0.078in (0.001in) or 1.999mm (0.001mm)
Basic accuracy	±5%
Dimensions/ Weight	Meter: 7.1x2.9x1.3" (180x72x32mm)/Meter: 0.87lbs (395g)

ORDERING	
407860	Vibration Meter/Datalogger
156119	117VAC Adapter
156221	220VAC Adapter

VB450 Vibration Meter

NEW

Includes remote sensor, magnetic mount, 9V battery, wrist strap, and soft case; 1 year warranty

CE

Wide 10Hz to 1500Hz frequency range
• Frequency range: 10Hz to 1kHz
• Velocity (RMS), Acceleration (Peak), and Displacement (Peak-to-Peak) modes
• Auto Power Off and Low battery indicator
• Automatic data hold after measurement button is released

SPECIFICATIONS	
Acceleration (max res)	0.1 to 199.9 m/s^2 (0.1m/s^2)
Velocity (max res)	0.1 to 199.9mm/s (0.1mm/s)
Displacement (max res)	1 to 1999µm (1µm)
Basic accuracy	±5%
Dimensions/ Weight	7.3x2.7x1.2" (185x68x30mm)/ 8.1oz (230g)

ORDERING	
VB450	Vibration Meter

CALIBRATION TRACEABLE TO *NIST*

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

461880 Vibration Meter + Laser Combination Tachometer

Measures Acceleration, Velocity, Displacement, RPM and Surface Speed
- Unique large LCD displays characters on reverse direction depending on function
- Windows® XP compatible software (included) to analyze data on your PC
- Basic accuracy: Tachometer: ±(0.05% rdg), Vibration: ±(5% rdg)
- Dimensions/Weight with Probe: 7.4x3x1.8" (188x75.5x46.8mm)/ 1.12lbs (507g)
- Include vibration sensor with 39" (1m) cable, magnetic mount, wheels (cone & flat tips), reflective tape, 4 AA batteries, software with cable, and hard case; 1yr warranty

Vibration Meter Functions and Features:
- Velocity (max res.): 7.87in/s (0.01in/s), 200mm/s (0.1mm/s), 19.99cm/s (0.01cm/s); Acceleration (max res.): 656ft/s^2 (1ft/s^2), 200m/s^2 (0.1m/s^2), 20.39g (0.01g) Displacement: 0.078in (0.001in), 2mm (0.001mm); Frequency: 10Hz to 1kHz
- RMS or Peak Value measurement modes
- Manual/Auto store/recall up to 1000 readings, Data Hold and Auto power off features

Tachometer Functions and Features:
- RPM ranges — Photo: 10 to 99,999rpm / Contact: 0.5 to 19,999rpm; Surface Speed: 0.2 to 6,560ft/min (0.05 to 1,999.9m/min)
- Uses a laser for greater distance non-contact measurements up to 4.9ft (1.5m)
- Stores Last, Max, and Min readings

ORDERING
461880 **N**		Vibration Meter + Laser Combination Tachometer

VB400 Pen Vibration Meter

Measures RMS Acceleration and Velocity with metric and imperial units
- Ranges — Acceleration (RMS): 656ft/s^2, 20.39g, 200m/s^2; Velocity (RMS): 7.87in/s, 2.00cm/s, 200mm/s; Frequency: 10Hz to 1kHz
- Resolution to 1ft/s^2; 0.01g; 0.1m/s^2 and 0.02in/s; 0.01cm/s; 0.1mm/s
- Basic accuracy of ±5%
- Zero adjustment, Data Hold, and Low battery indicator
- Water and dust resistant to IP65
- Dimensions: Meter: 6.9 x 1.6 x 1.3" (175 x 40 x 32mm); Weight: 0.53lbs (240g) Sensing Head: 0.4" dia x 1.9" (9mm dia x 30mm)
- 1 year warranty
- Complete with test pin tip, magnetic base, 4 x AAA batteries, and case

Includes both test pin tip and magnetic base

ORDERING
VB400		Pen Vibration Meter

VB300 3-Axis G-Force Datalogger

Built-in 3-axis accelerometers record the shock and time when it occurs
- Measure and compute real-time spectral data using FFT
- Acceleration — Sampling Rate: 200Hz, Range: ±18g, Resolution: 0.00625g, Accuracy: ±0.5g; Bandwidth: 0 to 60Hz
- Record storage, transport or operational data over time
- Record and time 3-axis shock and peaks
- Datalogs 168,042 normal recording records or 112,028 motion detection records per axis
- Choose X-, Y-, Z-axis or any combination (via software)
- Programmable data sampling rate: 50mSec to 24 hours
- Manual/Programmable start modes and user-programmable alarm threshold
- Dimensions/ Weight: 3.7 x 1.1 x 0.8" (95 x 28 x 21mm)/ 1oz (20g)
- Complete with Magnetized/Bolt-on Mounting Base, 3.6V Lithium battery and Windows® compatible analysis software; 1 year warranty

Magnetized/Bolt-on Mounting Base

USB connector easily plugs into a computer for data analysis

ORDERING
VB300		3-Axis G-Force Datalogger
42299		3.6V Lithium Battery (pk of 2)

PRC30 Multifunction Process Calibrator

Precision source and measure for thermocouples, mA, mV, and V devices
- Palm-sized double molded housing and large dot-matrix backlit LCD
- Measures DC process signals
- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders
- Up to five user adjustable calibration presets
- Displays output in terms of millivolts or temperature based on thermocouple tables
- 24V Loop Power
- Zero adjustment, auto zero when power on and change mode
- Standard banana I/O ports and mini thermocouple inputs
- Large battery bank for extended work cycle
- External power adapter for continuous work cycle
- 1 year warranty
- Complete with test leads, alligator clips, Thermocouple calibration cable with subminiature connector, universal calibration cable with subminiature terminal, 100V-240V AC Universal Adaptor with 4 plugs, six 1.5V AA batteries, and hard carrying case

CE

N NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** next to product part numbers.

SPECIFICATIONS	DC SOURCE	DC MEASURE	BASIC ACCURACY
Current	0 to 24mA, -25% to +125%	0 to 50mA, -25% to +230%	±(0.01%+1d)
Voltage	0 to 2000mV, 0 to 20V	0 to 1999mV, 2 to 20V	±(0.01%+1d)
Type J	-58 to 1830°F (-50 to 1000°C)	-58 to 1830°F (-50 to 1000°C)	±(0.05%+1.8°F/1°C)
Type K	-58 to 2498°F (-50 to 1370°C)	-58 to 2498°F (-50 to 1370°C)	±(0.05%+1.8°F/1°C)
Type T	-184 to 752°F (-120 to 400°C)	-184 to 752°F (-120 to 400°C)	±(0.05%+1.8°F/1°C)
Loop Power	24V		±(10µV ± 1d)
Max. Load	1000Ω @ 24mA		
Dimensions/Wt	6.3x3.2x1.7" (159x80x44mm)/ 8.4oz (236g) - not including battery weight		

ORDERING

PRC30 **N**	Multifunction Process Calibrator

PRC20 Multi-Type Calibrator Thermometer

Source and measure 8 thermocouple type devices J, K, T, E, C, R, S, and N
- Palm-sized double molded housing and large dot-matrix digital backlit LCD with thermocouple type indication
- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders
- Displays output in terms of millivolts or temperature based on thermocouple tables
- Standard mini-thermocouple input
- Large battery bank for extended work cycle
- Up to five user adjustable calibration presets
- External power adapter for continuous work cycle
- 1 year warranty
- Complete with Thermocouple calibration cable with subminiature connectors, standard calibration cable with subminiature connectors, 100V-240V AC Universal Adaptor with 4 plugs, 6 x 1.5V AA batteries, and hard carrying case

CE

SPECIFICATIONS	RANGE	BASIC ACCURACY
Type J	-58 to 1830°F (-50 to 1000°C)	±0.05% rdg ±1°
Type K	-58 to 2498°F (-50 to 1370°C)	±0.05% rdg ±1°
Type T	-184 to 752°F (-270 to 400°C)	±0.05% rdg ±1°
Type E	-58 to 1382°F (-50 to 750°C)	±0.05% rdg ±1°
Type C	32 to 3182°F (0 to 1750°C)	±0.05% rdg ±1°
Type R/S	32 to 3182°F (0 to 1750°C)	±0.05% rdg ±1°
Type N	-58 to 2372°F (-50 to 1300°C)	±0.05% rdg ±1°
Voltage	-10.00mV to +60.00mV	10µV ±1d
Dimensions/Wt	6.3x 3.2x1.7" (159x80x44mm)/ 8oz (225g) - not including battery weight	

ORDERING

PRC20 **N**	Calibrator Thermometer

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

PRC10/PRC15 Current & Voltage Calibrators/Meters

PRC10

PRC15

"Source" for calibrating process devices and measuring DC process signals
- Palm-sized double molded housing and large dot-matrix digital backlit LCD
- Measures DC process signals
- Standard banana I/O ports
- Large battery bank for extended work cycle
- Up to five user adjustable calibration presets
- External power adapter for continuous work cycle
- 1 year warranty
- Each meter includes test leads, alligator clips, 100V-240V AC Universal Adaptor with 4 plugs, six 1.5V AA batteries, and hard carrying case

PRC10 Additional Features
- 0 to 24mA (-25 to 125%)
- 24V DC power source for 2-wire current loop

PRC15 Additional Features
- 0 to 24mA (-25 to 125%)
- 0 to 20V DC calibration source

SPECIFICATIONS

Source	Output 0 to 24mA current for loads up to 1000 ohms; Output 0 to 20V (PRC15 only)	
Measure	0 to 50mA current signal; 0 to 19.99V (PRC15 only)	
Power/Measure	Provides power (24VDC) to loop & measures current (PRC10 only)	
Input/Output	**Ranges and Display**	**Resolution**
	-25.0 to 125.0% (representing 0 to 24mA)	0.1%
	0 to 19.99mA	0.01mA
	0 to 24.0mA	0.1mA
	0 to 1999mV	1mV
	0 to 20.00V	10mV
Accuracy	± 0.01% ±1 digit	
Dimensions/Weight	6.3x3.2x1.7" (159x80x44mm)/ 8.2oz (232g) - not including battery weight	

ORDERING

PRC10 [N]	Current Calibrator/Meter
PRC15 [N]	Current & Voltage Calibrator/Meter

412440-S Calibration Source Checker

Easy to use pocket checker for simulating Current Loops
- Pocket Checkers are easy to use and provide a quick and easy way for checking calibration of meters or controllers
- Instantly determine if your device needs calibration or if sensor needs to be replaced
- Sources three discrete current levels: 4mA, 12mA and 20mA
- Bright red LEDs indicate simulation output or battery status
- Accurate to 0.1mA
- Overload indication when load exceeds 240Ω
- Compact case features push button output selector switch
- Ideal for checking calibration and as a current source for setting up engineering units on a process indicator or controller
- Dimensions/ Weight: 3.5x2.3x1" (89x58.4x25.4mm)/ 10oz (283.5g)
- 1 year warranty

ORDERING

412440-S [N]	Calibration Source Checker

STOPWATCHES/ TIMERS

HW30 Humidity/ Thermometer Stopwatch

Digital UP/DOWN timer displays Temperature, Humidity, and Heat Index

- User programmable Heat Index alarm
- Stopwatch/chronograph mode with 1/100th second resolution
- Fastest/Slowest/Average Lap recall
- 99 lap counter with 30 lap/split memory
- 10 hour countdown timer with audible beeper warning for the last 5 seconds
- Programmable alarm
- Calendar mode displays day, month, and date
- 12 or 24 hour clock operation
- Complete with 39" (1m) lanyard and one 3V CR2032 battery

Perfect Timing

Stopwatches ensure consistent timing of critical industrial/lab processes and provide split/lap times at sporting events

N NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** next to product part numbers.

SPECIFICATIONS	HW30 **N**
Timing capacity	9hrs, 59mins, and 59secs
Accuracy	±5 seconds/day
Alarm	Yes
Countdown Timer	Yes
Lap Memory	30 laps
Heat Index	70 to 122°F (22 to 50°C)
Temperature	14 to 122°F (-10 to 50°C)
Humidity	1 to 99%
CE approved	Yes
Dimensions	3.1x2.6x0.8" (79x66x21mm)
Weight	3oz (85g)
Warranty	1 year

Indicates products that are available with optional calibration traceable to **NIST.** *See page 160 for a complete listing.*

365510 Stopwatch/Clock

Digital Stopwatch plus Calendar and Alarm

- Stopwatch/Chronograph mode with 1/100th second resolution
- 12 or 24 hour clock operation
- Programmable alarm with an hourly chime
- Split time and two competitor timer
- Calendar displays day, month, and date
- Water resistant housing is complete with LR44 battery and 39" (1m) neckstrap

365515 Stopwatch/Clock with Backlit display

Large backlit display feature — perfect for viewing in dimly lit area

- 1/100th second resolution for 30mins
- 1 second resolution up to 24 hours
- 12 or 24 hour clock format
- Calendar displays day, month and date
- Programmable alarm and hourly chime setting
- Water resistant housing is complete with LR44 battery and 39" (1m) neckstrap

365535 Decimal Stopwatch/Clock

User-selectable resolution of 1/100th of a second, 1/1000th of a minute and 1/100,000th of an hour Large triple display with adjustable contrast

- 1/100th second precision
- 500 memory records of Split and Lap times
- Calendar displays day, month and date
- Time of day with daily alarm
- 12 or 24 hour clock format
- 3 Mode Countdown timer: count down stop, count down repeat, count down then count up
- Stroke measurement
- Pacer from 5 to 240 beeps per minute
- Water resistant housing
- Complete with CR2032 lithium battery and 39" (1m) neckstrap

365510 N	365515 N	365535 N
23hrs, 59mins and 59.99secs	23hrs, 59mins and 59.99secs	19hrs, 59mins and 59.99secs
±3 seconds/day	±3 seconds/day	±5 seconds/day
Yes	Yes	Yes
—	—	3 Modes
—	—	500 laps
—	—	—
—	—	—
—	—	—
Yes	Yes	Yes
2.3x2.8x0.5" (57x70x15mm)	2.3x2.8x0.5" (57x70x15mm)	2.5x3.2x0.8" (64x81x20mm)
2oz (50g)	2oz (50g)	2.7oz (77g)
1 year	1 year	1 year

CG104 Coating Thickness Tester

Smart display rotates 180° for easy viewing angle and Automatic recognition for ferrous and non-ferrous substrates
- Conforms to GB/T 4956, 1985, GB/T 4957-1985, JB/T 8393-1996, JJG 889-95, and JJG 818-93
- 180° reversible LCD display with LED backlight
- Magnetic induction for ferrous substrates; Eddy current for non-ferrous substrates
- Memory stores 255 readings
- User adjustable high/low alarms, Min/Max/Average,
- Substrate Zeroing and two-point calibration function
- Auto-Hold, Auto Power Off, and low battery indicator
- Includes two AAA batteries, calibration standards (one ferrous plate, one non-ferrous plate, and one standard coating plate film), wrist strap, and pouch; 1yr warranty

SPECIFICATIONS	FERROUS PROBE (MAGNETIC INDUCTION)	NON-FERROUS PROBE (EDDY CURRENT)
Range (max res)	0 to 2000µm (1µm); 0 to 80.0mils (0.1mils)	0 to 1000µm (1µm); 0 to 40.0mils (0.1mils)
Basic Accuracy	±3%	±3%
Minimum Thickness	0 to 80mils (0 to 2000µm)	0 to 40mils (0 to 1020µm)
Dimensions/Weight	4.1x2.2x1.1" (105x55x27mm)/ 2.82oz (80g)	

ORDERING

CG104	Coating Thickness Tester
CG104-REF	Calibration References (one ferrous plate, one non-ferrous plate, & one film)

CG204 Coating Thickness Tester

Automatic recognition for ferrous and non-ferrous substrates with USB interface with software for further anyalysis of reads on a PC
- Conforms to GB/T 4956-1985, GB/T 4957-1985, JB/T 8393-1996, JJG-889-95, and JJG 818-93
- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Two measuring modes (Single and Continuous) and Working modes (Direct & Group)
- Memory stores 400 readings: 80 Direct and 320 Group
- User adjustable high/low alarms, Min/Max/Average, One or two point calibration
- USB interface includes software
- Complete with two AAA batteries, USB cable, software, Calibration Iron, Calibration Aluminum, Reference Films, and carrying case; 1 year warranty

SPECIFICATIONS	FERROUS PROBE (MAGNETIC INDUCTION)	NON-FERROUS PROBE (EDDY CURRENT)
Range (max res)	0 to 1250µm (0.1µm); 0 to 49mils (0.004mils)	0 to 1250µm (0.1µm); 0 to 49mils (0.004mils)
Basic Accuracy	±3%	±3%
Min. Curvature Radius	1.5mm (59.06mils)	3mm (118.1mils)
Minimum Diameter	7mm (275.6mils)	5mm (196.9mils)
Minimum Thickness	0.5mm (19.69mils)	0.3mm (11.81mils)
Dimensions/Weight	4.7x2.4x1.25" (120x6 x32mm)/ 6.17oz (175g)	

ORDERING

CG204	Coating Thickness Tester
CG204-REF	Replacement Calibration Reference Films

Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.

CG206 Coating Thickness Tester

NEW

Automatic recognition for ferrous and non-ferrous substrates with 1500 data storage and USB interface for further data analysis on a PC
- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Easy-to use menu system
- Dot matrix LCD display with 8 level adjustable backlight
- Two working modes: Direct and Group
- Memory stores 1500 readings (30 Group readings)
- One or two point calibration
- USB interface includes software
- Low battery indicator
- Complete with two AAA batteries, USB cable, software, Calibration Iron, Calibration Aluminum, Precision Standards, and pouch

SPECIFICATIONS	FERROUS PROBE	NON-FERROUS PROBE
Measuring Range	0 to 1350µm (0 to 53mils)	0 to 1350µm (0 to 53mils)
Resolution	0.1µm (0.004mils)	0.1µm (0.004mils)
Accuracy	±2.5%	±2.5%
Minimum Curvature Radius	1.5mm (59.06mils)	3mm (118.1mils)
Minimum Diameter	7mm (275.6mils)	5mm (196.9mils)
Minimum Thickness	0.5mm (19.69mils)	0.3mm (11.81mils)
Dimensions/Weight	4.5x2.1x1.1" (113.5x54x27mm)/ 3.9oz (110g)	

ORDERING	
CG206	Coating Thickness Tester
CG204-REF	Replacement Calibration Reference

CG304 Coating Thickness Tester with Bluetooth®

NEW

Bluetooth® interface feature wirelessly transmits data to your PC
- Provides automatic recognition of ferrous and non-ferrous substrates
- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Easy-to use menu system
- Dot matrix LCD display with backlight and contrast
- Memory stores 2500 readings in 50 groups with 50 readings in each group
- Zero-point calibration function
- Complete with two AAA batteries, software, hard case, Steel and Aluminum substrates, and standard films for calibration; 1year warranty

SPECIFICATIONS	FERROUS PROBE	NON-FERROUS PROBE
Working Principle	Magnetic Induction	Eddy Current
Measuring Range	0 to 2000µm; 0 to 78.7mils	0 to 2000µm; 0 to 78.7mils
Accuracy	±(2%+2µm); ±3.5% (1000 to 2000µm)	±(2%+2µm); ±3.5% (1000 to 2000µm)
Resolution	0.1µm (0.01mils)	0.1µm (0.01mils)
Minimum Curvature Radius	1.5mm (59.06mils)	3mm (118.1mils)
Minimum Diameter	7mm (275.6mils)	5mm (196.9mils)
Minimum Thickness	0.5mm (19.69mils)	0.3mm (11.81mils)
Dimensions /Weight	4.7x2.4x1.25" (120x62x32mm)/6.17oz (175g)	

ORDERING	
CG304	Coating Thickness Tester with Bluetooth
CG304-REF	Replacement Calibration Reference

SC600 Electronic Counting Scale/Balance

Measure batches of electronic components.

CE

Wide capacity measuring single small electronic component weighing 0.005oz (0.1g) or batches up to 21.164oz (600g)
- ±0.05% accuracy with 0.01g and 0.0005oz resolution
- LCD display with 0.8" (20.9mm) easy-to-read digits
- Built-in self-calibration system using traceable weights
- High precision counting function with preset counting sampling number selection of 10pcs, 20pcs, 50pcs, or 100pcs
- TARE function to set the scale to zero
- Built-in bubble level with adjustable rubber pads
- RS-232 interface (optional 407001 software with cable)
- Dimensions: 9.8x7.5x2.8" (250x190x70mm); Platform Diameter: 4.7" (120mm); Weight: 2.2lbs (1kg)
- Complete with 6 AA batteries, metal platform, and Universal AC adaptor; 1 year warranty

ORDERING	
SC600	Electronic Counting Scale/Balance
407001	Data Acquisition Software with Cable
407001-USB	USB adaptor for 407001

SC50 Electronic Digital Scale

NEW

CE

Portable electronic scale weighs items that won't fit on a flat floor scale
- 1.6" color LCD with 0.5" digits provides
- Weight and Tare indication
- 110lbs/50kg with 0.01lb (0.01kg) resolution
- Simple touchscreen Zero and Tare programming
- Automatic 30 seconds Data Hold
- Auto Power Off in 30 seconds
- Overload indicator
- Complete with CR2032 battery, 9.4" (238mm) strap, and metal hook; 1 year warranty

ORDERING	
SC50	Electronic Digital Scale

A

B

A. Verifying the level of refrigerant inside the tank as well as checking the remaining level when used before the next job.
B. Conveniently weigh your luggage to ensure you meet the proper guidlines before checking your bag in at the airport.

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* NIST. *See page 160 for a complete listing.*

CL500 Free and Total Chlorine Meter

Complete with all the accessories to conveniently take measurements of both Free and Total Chlorine up to 3.50ppm with 0.01ppm resolution

- The method used is adapted from USEPA Method 330.5 for waste water and Standard Method 4500-Cl-G for drinking water
- Advanced optical system uses a narrow band LED lamp that provides accurate and repeatable readings
- Requires only a 10mL sample size
- Independent 2-point calibration for Free and Total Chlorine
- Splash-proof front panel
- Battery operated for field and on-site testing
- Data Hold and Min/Max record/recall
- Auto power off
- Complete with 1.0ppm Free Chlorine standard solution, 1.0 Total Chlorine standard solution, Zero Chlorine standard solution, (2) test bottles and covers, Free Chlorine DPD powder (10pcs), Total Chlorine DPD powder (10pcs), cleaning cloth, six AAA batteries, and hard carrying case; 1 year warranty

SPECIFICATIONS	
Range (ppm)	0.01 to 3.50ppm
Resolution	0.01ppm
Accuracy	±0.02ppm @ 1ppm
Light source	LED, 525nm
Method	Adaptation of USEPA Method 330.5 for waste water and Standard Method 4500-Cl-G for drinking water
Response Time	<10 seconds
Dimensions	6.1 x 3.0 x 2.4" (155 x 76 x 62mm)
Weight	11.3oz (320g)

Contact Extech or your local lab supply for refills on the standard solutions and reagents

ORDERING	
CL500	Free and Total Chlorine Meter

TB400 Portable Turbidity Meter

Complete with all the accessories to conveniently test the turbidity of municipal water, food and beverage water, and other aqueous solutions where fluid clarity is important

- Microprocessor-based circuitry assures high accuracy and repeatable readings
- Requires only a 10mL sample size
- 2-point calibration
- Splash-proof front panel
- Battery operated for field and on-site testing
- Data Hold and Min/Max record/recall
- Auto power off
- Complete with 0 NTU standard solution test bottle, 100 NTU standard solution test bottle, cleaning solution (distilled water), (2) test bottles and covers, cleaning cloth, six AAA batteries, and hard carrying case; 1 year warranty

SPECIFICATIONS	
Range (NTU)	0.00 to 50.00 NTU, 50 to 1000 NTU (Nephelometric Turbidity Unit)
Resolution	0.01 NTU
Accuracy	±5% FS or ±0.5 NTU, whichever is greater
Light source	LED, 850nm
Standard	Designed to meet ISO 7027
Response Time	<10 seconds
Dimensions	6.1 x 3.0 x 2.4" (155 x 76 x 62mm)
Weight	11.3oz (320g)

Contact Extech or your local lab supply for refills on the standard solutions and reagents

ORDERING	
TB400	Turbidity Meter

ExStik® Series — Why Flat Surface Electrodes?

ExStik is the first waterproof stick meter with an interchangeable flat surface electrode. It measures pH, Chlorine, ORP, and Temperature and features built-in memory. The electrodes measure solids and semi-solids on flat surfaces, and in liquids.

ACCESSORIES	
PH105	pH ExStik® Electrode Module
PH115	Spare Refillable pH ExStik® Electrode Module
PH113	Reference Refill Solution Kit for PH110
RE305	ORP ExStik® Electrode Module
CL205	Spare Chlorine electrode
PH103	Tripak Buffer pouches
PH4-P	pH 4 Buffer Solution (2 bottles - 1 pint each)
PH7-P	pH 7 Buffer Solution (2 bottles - 1 pint each)
PH10-P	pH 10 Buffer Solution (2 bottles - 1 pint each)
CA895	Small vinyl carrying case with belt loop
CA904	Large hard case for meter and accessories

IP57
Waterproof
Dustproof

PH100/PH110
Waterproof ExStik® pH Meters

Choose flat surface gel-filled or refillable pH electrode

- "RENEW" feature alerts user when electrode needs replacement
- "CAL" indicator alerts user to recalibrate
- Analog bargraph originates at neutral point (pH 7.00) to conveniently view trends in acidity or alkalinity
- 1, 2 or 3 point buffer calibration; ATC
- Records 15 labeled readings
- Waterproof housing (meets IP57)
- Interchangeable flat surface electrode; Optional RE305 electrode to measure ORP and CL205 to measure Total Chlorine
- Complete with protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) neckstrap; requires pH buffers sold separately
- **Model PH100** meter includes gel filled pH flat surface electrode
- **Model PH110** meter includes refillable flat surface pH electrode; PH113 KCl reference kit sold separately

SPECIFICATIONS	■ PH100	▲ PH110
pH	0.00 to 14.00pH
ORP (mV)	—
Chlorine (ppm)	—
Temperature	23° to 194°F (-5 to 90°C)
Max Resolution	0.01pH, 0.1°
Basic Accuracy	±0.01pH, ±1.8°F/1°C
Memory	15 readings
Dimensions/ Weight	1.4x6.8x1.6" (35.6x172.7x40.6mm)/3.8oz (110g)
Warranty	1yr (meter)/6mo conditional warranty (electrode)

CALIBRATION
TRACEABLE TO **NIST**

146 N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

IP57
Waterproof
Dustproof

IP57
Waterproof
Dustproof

Value Kit
Special

RE300 Waterproof ExStik® ORP Meter

High resolution of 1mV

- Measures ORP/Redox from -999 to 999mV
- Automatic electronic self calibration
- Simulated analog bargraph displays change in ORP reading
- Memory stores 15 labeled data
- Waterproof to IP57 protects meter from wet environment
- Complete with flat surface ORP electrode, protective sensor cap, sample cup with cap, four 3V button batteries and 48" (1.2m) neckstrap

CL200 Waterproof ExStik® Chlorine Meter

Direct reading of Total chlorine down to 0.01ppm and is unaffected by color or Turbidity of the sample

- Wide dynamic range to 10ppm and low detection limit down to 0.01ppm
- Unaffected by sample color or turbidity
- Automatic electronic calibration
- Memory stores 15 labeled readings
- Unique flat surface chlorine electrode eliminates any concerns for clogged junctions or glass breakage
- Waterproof to IP57 protects meter from wet environment
- Large LCD simultaneously displays ppm of Total Chlorine, Temperature and analog bargraph indicator
- Complete with flat surface Chlorine electrode, ExTab™ reagent tablets (50 tests), protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) neckstrap

EX900 Waterproof ExStik® 4-in-1 Kit

Complete kit allows you to measure Chlorine, pH, ORP, and Temperature with all the necessary accessories

- One meter with three interchangeable flat surface electrodes to measure Chlorine, pH or ORP
- Measure in liquids, semi-solids and solids
- Memory stores and recalls 15 readings and saves last calibrated value
- Automatic electronic self calibration for Chlorine and ORP; 1, 2 or 3 point buffer calibration for pH
- Waterproof to IP57 protects meter from wet environment
- Direct reading of Total Chlorine from low detection limit; Unaffected by sample color or turbidity
- See PH100, RE300, and CL200 for complete features and specification
- Complete with CL200 Chlorine ExStik® meter, flat surface pH electrode, flat surface ORP electrode, ExTab™ reagent tablets (50 tests), pH 4, 7 & 10 buffer solutions (20mL) and rinse solution, weighted base with 6 sample plastic cups with caps, four 3V CR2032 button batteries, 48" (1.2m) neckstrap, and case

RE300	CL200	EX900
—	—	0.00 to 14.00pH
-999 to 999mV	—	-999 to 999mV
—	0.01 to 10.00ppm	0.01 to 10.00ppm
—	23° to 194°F (-5 to 90°C)	23° to 194°F (-5 to 90°C)
1mV	0.01ppm; 0.1°F/°C;	0.01pH, 1mV, 0.01ppm, 0.1°
±4mV	±10% of reading ±0.01ppm; ±1.8°F/±1°C	±0.01pH, ±4mV, ±10% of reading ±0.01ppm; ±1.8°F/±1°C
15 readings	15 readings	15 readings
1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.8oz (110g)	1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.85oz (110g)	Meter: 1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.85oz (110g)
1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)

WATER QUALITY *METERS*

Save Time and Money

Value Kits allow you to measure multiple water quality parameters and provide all of the necessary accessories including calibration solutions, buffers, sample cups, batteries and a carrying case to store everything.

ACCESSORIES	
PH95	pH Electrode Module for PH90
EC405*	ExStik® II Conductivity Cell Module for EC400
EC505*	ExStik® II pH/Conductivity Cell Module for EC500
EC-84-P	84µS Conductivity Standard (2 bottles/1 pint ea)
EC-1413-P	1413µS Conductivity Standard (2 bottles/1 pint ea)
EC-12880-P	12880µS Conductivity Standard (2 bottles/1 pint ea)
PH103	Tripak pH Calibration Buffer pouches
EX010	3ft (1m) Extension Cable w/Probe Guard/Weight
EX050	16ft (5m) Extension Cable w/Probe Guard/Weight
CA895	Small vinyl carrying case with belt loop
CA904	Large hard case for meter and accessories

NEW

IP57 Waterproof Dustproof

PH90 Waterproof pH Meter

Flat Surface Electrode for measuring pH in liquids, semi-solids, and solids

- Rugged replaceable flat surface pH electrode for quick on-the-spot pH measurements
- Simultaneous display of pH and Temperature
- 2 or 3 point calibration automatically recognizes buffer solutions (pH buffers required - sold separately)
- PTS (percent of slope) tells you when it's time to replace your electrode (below 70% or above 130%)
- Automatic Temperature Compensation
- Data Hold, Min/Max, Auto Power Off, and low battery indication
- Waterproof design (IP57) floats in water and protects the meter in wet environment
- Complete with flat surface pH electrode, protective sensor cap, and two 3V CR-2032 button batteries

IP57 Waterproof Dustproof

EC400 Waterproof ExStik® II* Conductivity Meter

4-in-1 multi-range sensor for measuring Conductivity, TDS, Salinity & Temperature

- Analog bargraph indicates trends
- Adjustable Conductivity to TDS ratio from 0.4 to 1.0
- 0.5 fixed Salinity ratio
- Data Hold, Auto power off, Low battery indicator
- Memory stores 25 labeled data
- Waterproof to IP57 protects meter from wet environment
- Complete with Conductivity/TDS electrode, sensor cap, sample cup with cap, four 3V CR2032 batteries, and 48" (1.2m) neckstrap. Order Conductivity standards separately (see Accessories chart on the left).

*ExStik® II electrode modules are not interchangeable with ExStik® pH/ORP/Chlorine meters

CE All models are CE approved

SPECIFICATIONS	PH90	EC400
pH	0.00 to 14.00pH	—
ORP (mV)	—	—
Conductivity	—	0 to 199.9µS, 200 to 1999µS, 2.00 to 19.99mS
TDS/Salinity/Fluoride	—	TDS/Salinity: 0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L)
DO saturation/concentration	—	—
Temperature	32° to 194°F (0 to 90°C)	32° to 149°F (0 to 65°C)
Max. Resolution	0.01pH, 0.1°	0.1µS, 0.1ppm (mg/L), 0.01pH, 0.1°F/°C
Basic Accuracy	±0.01pH, ±1.8°F/1°C	±2%FS, ±0.01pH, ±1.8°F/1°C
Dimensions	1.4x6.7x1.4" (36x170x36mm)	1.4x6.8x1.6" (35.6x172.7x40.6mm)
Weight	3oz (85g)	3.8oz (110g)
Warranty	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)

CALIBRATION TRACEABLE TO *NIST*

N Indicates products that are available with optional calibration traceable to **NIST.** *See page 160 for a complete listing.*

IP57
Waterproof
Dustproof

pH/EC/TDS
Module

EC500 Waterproof ExStik® II* pH/ Conductivity Meter

5-in-1 multi-range sensor for measuring pH, Conductivity, TDS, Salinity and Temperature

- RENEW feature tells user to replace electrode
- Analog bargraph indicates trends
- Adjustable Conductivity to TDS ratio from 0.4 to 1.0
- 0.5 fixed Salinity ratio
- Data Hold, Auto power off, Low battery indicator
- Memory stores 25 labeled data
- Waterproof to IP57 protects meter from wet environment
- Complete with combination pH/ Conductivity/TDS electrode, sensor cap, sample cup with cap, four 3V CR2032 batteries, and 48" (1.2m) neckstrap. Order Conductivity standards and pH Calibration buffers separately (see Accessories chart on the left).

EC410 ExStik® II* Conductivity Kit

Highly accurate multi-ranging sensor that measures Conductivity, TDS, Salinity, and Temperature

- EC400 ExStik® II Conductivity/ TDS/Salinity/Temperature meter with sensor, protective cap, 84µS, 1413µS and 12880µS standards (30mL bottle each), weighted base, 3 sample plastic cups with caps, four 3V CR2032 button batteries, 48" (1.2m) neckstrap, and carrying case
-

EC510 ExStik® II* DO/pH/EC Kit

Measures pH, Conductivity, TDS, Salinity, and Temperature using a combination electrode

- EC500 ExStik II pH/ Conductivity/TDS/Salinity/ Temperature meter with combination electrode module, 84µS, 1413µS, 12880µS calibration standards, pH buffer pouches (1 each of 4, 7, 10pH plus rinse solution), weighted base, three sample cups with caps, four 3V CR2032 batteries, neckstrap, and case
- See EC500 on the left for more details on the meter

EC500	EC410	EC510	SPECIFICATIONS
0.00 to 14.00pH	—	0.00 to 14.00pH	pH
—	—	—	ORP
0 to 199.9µS, 200 to 1999µS, 2.00 to 19.99mS	0 to 199.9µS, 200 to 1999µS, 2.00 to 19.99mS	0 to 199.9µS, 200 to 1999µS, 2.00 to 19.99mS	Conductivity
TDS/Salinity: 0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L)	TDS/Salinity: 0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L)	TDS/Salinity: 0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L)	TDS/Salinity/Fluoride
—	—	—	DO saturation/concentration
23° to 194°F (-5 to 90°C)	32° to 149°F (0 to 65°C)	23° to 194°F (-5 to 90°C)	Temperature
0.1µS, 0.1ppm (mg/L), 0.01pH, 0.1°F/°C	0.1µS, 0.1ppm (mg/L), 0.01pH, 0.1°F/°C	0.1µS, 0.1ppm (mg/L), 0.01pH, 0.1°F/°C	Max. Resolution
±2%FS, ±0.01pH, ±1.8°F/1°C	±2%FS, ±0.01pH, ±1.8°F/1°C	±2%FS, ±0.01pH, ±1.8°F/1°C	Basic Accuracy
1.4x6.8x1.6" (35.6x172.7x40.6mm)	1.4x6.8x1.6" (35.6x172.7x40.6mm)	1.4x6.8x1.6" (35.6x172.7x40.6mm)	Dimensions
3.8oz (110g)	3.8oz (110g)	3.8oz (110g)	Weight
1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	Warranty

CL200 ExStik® Waterproof Chlorine Meter

Direct reading of Total chlorine down to 0.01ppm and is unaffected by color or Turbidity of the sample
- Direct reading of Total Chlorine provides fast and easy measurements
- Wide dynamic range to 10ppm and low detection limit down to 0.01ppm
- Unaffected by sample color or turbidity
- Automatic electronic calibration
- Memory stores 15 labeled readings
- Unique flat surface chlorine electrode eliminates any concerns for clogged junctions or glass breakage
- Waterproof to IP57
- Large LCD simultaneously displays ppm of Total Chlorine, Temperature and analog bargraph indicator
- 1 year warranty (meter)/ 6 months conditional warranty (electrode)
- Complete with meter and flat surface Chlorine electrode, ExTab™ reagent tablets (50 tests), protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) neckstrap

IP57 Waterproof Dustproof

SPECIFICATIONS	
ppm	0.01 to 10.00ppm
Temperature	23° to 194°F (-5 to 90°C)
Resolution	0.01ppm; 0.1°F/°C;
Basic accuracy	±10% of reading ±0.01ppm; ±1.8°F/±1°C
Dimensions/ Weight	1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.85oz (110g)

ORDERING	
CL200	ExStik® Chlorine Meter
CA895	Small vinyl carrying case with belt loop
CL205	Spare Chlorine electrode
CL207	Chlorine Standard (1ppm) - 3 ampules (20mL ea.)

EX006/EX007 Accessories

Weighted Base & Solution Cups
- Recommended for ExStik® Chlorine
- Complete with weighted base and 5 solution cups with caps to hold meter and solution when taking a measurement to obtain a stable reading

CL203/CL204 ExTab™ Chlorine Reagent tablets
- No messy powder reagents
- 1 tablet per test
- Foil packaging provides very stable environment with long shelf life
- No dosing equipment required
- No messy powder reagents
- Available in 10pk (100 tests) or Value pack 100pk (1000 tests)

CL207 Chlorine Standard
- 1ppm standard for chlorine meter calibration
- Complete with 3 ampules (20mL each) 1ppm calibration standards

ORDERING	
EX006	Weighted base with 5 solution cups
EX007	Spare sample solution cups (24pk)
CL203	ExTab™ Reagent tablets (10pk - 100 tests)
CL204	ExTab™ Reagent tablets (100pk - 1000 tests)
CL207	Chlorine Standard (1ppm) - 3 ampules (20mL ea.)

CALIBRATION TRACEABLE TO **NIST**

Ⓝ *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

FL700 ExStik® II* Fluoride Meter

FL704	FL705

Includes flat surface electrode, cap, TISAB reagent tablets, four 3V button batteries, and 48" (1.2m) neckstrap; 1 year warranty

CE IP57 Waterproof Dustproof

Direct reading of Fluoride from 0.1ppm to 10ppm with ATC; Waterproof IP57

- First Fluoride meter with built-in Automatic Temperature Compensation
- Fastest response Fluoride meter (<1min)
- Measures Temperature from 32 to 140°F (0 to 60°C)
- 0.1ppm, 0.1 max resolution and ±3.0% basic accuracy
- Small sample/TISAB volume required for testing (10mL)
- In compliance with EPA Method 340.2. (Potentiometric Ion Selective Electrode)
- Automatic electronic 1 or 2 point calibration with offset adjustment
- Memory stores 25 labeled data
- Dims: 1.4x6.8x1.6" (35.6x172.7x40.6mm); Wt: 3.8oz (110g)
- Contact Extech or your local lab supply for Fluoride calibration standards

ORDERING	
FL700	ExStik® II Fluoride Meter
FL705	ExStik® II Fluoride Module for FL700
FL704	TISAB reagent tablets for FL700 (100 tablets)

DO600 ExStik® II* Dissolved Oxygen Meter

DO600-K Kit available shown above. Includes DO600 meter, DO603 membrane kit, 16ft (5m) extension cable, weighted probe guard, and carrying case

CE IP57 Waterproof Dustproof

Easy to replace screw-on membrane cap with optional extension cables

- Displays Oxygen level Saturation (0 to 200.0%) or Concentration (0 to 20.00mg/L [ppm]) and Temperature 32 to 122°F (0 to 50°C)
- Max resolution: 0.1%, 0.01ppm, 0.1°; Basic accuracy: ±2.0%FS, ±0.4ppm (mg/L), ±1.8°F/1°C
- Adjustable Altitude Compensation (0 to 20,000ft) in 1,000ft increments
- Adjustable Salinity Compensation from 0 to 50ppt
- Analog bargraph display; Self calibration on power up
- Memory stores 25 labeled data; Waterproof to IP57
- **Model DO600** meter includes DO electrode, sensor cap, spare membrane cap, electrolyte, four 3V CR2032 batteries, and 48" (1.2m) neckstrap
- **Model DO600-K** Kit shown on the left

ORDERING	
DO600	ExStik® II Dissolved Oxygen Meter
DO600-K	ExStik® II Dissolved Oxygen Kit
DO605	ExStik® II Dissolved Oxygen Module for DO600
DO603	Membrane Kit for DO600/DO605
EX010	3ft (1m) Extension Cable w/Probe Guard/Weight
EX050	16ft (5m) Extension Cable w/Probe Guard/Weight

DO610 ExStik® II* DO/pH/EC Kit

Special Value Kit

CE IP57 Waterproof Dustproof

Measures Dissolved Oxygen, pH, Conductivity, TDS, Salinity, and Temperature

- EC500 pH/Conductivity ExStik® II meter with combination high accuracy multi-ranging Conductivity sensor for Conductivity, TDS, Salinity, pH and Temperature measurements
- DO600 Dissolved Oxygen ExStik® II meter with electrode, replacement membrane cap, electrolyte, and polishing paper

Accessories included:

- Sample pH Buffers — Single use pouches for pH4, pH7, pH10, and rinse solution
- Weighted base with 2 cups and caps, four 3V CR2032 batteries and neckstrap with each meter, and case
- See p. 149 for more details on the EC500 and above for DO600 meter

ORDERING	
DO610	ExStik® II DO/pH/Conductivity Kit

*ExStik® II electrode modules are not interchangeable with ExStik® pH/ORP/Chlorine meters

PH50/PH60 pH Pens

Easy-to-use, low cost waterproof pH pens
- **Model PH50** — Measures pH
- **Model PH60** — Measures pH and Temperature Automatic Temperature Compensation Waterproof housing
- Easy to calibrate single CAL key with automatic pH buffer recognition (4, 7, and 10pH calibration buffers sold separately)
- Data hold, Low battery indicator, and Auto power off with disable feature
- Complete with built in electrode, sensor cap, inner pH electrode protection cap, and four LR44 button batteries; 1 year warranty

SPECIFICATIONS

pH	2.0 to 12.0pH	0.0 to 14.0pH
Temperature	—	32 to 122°F (0 to 50°C)
Resolution	0.1pH, 0.1°	0.1pH, 0.1°
Accuracy	±0.3pH	±0.2pH; ±1°F/±0.5°C
Dimensions/Wt	6x1.5x0.9" (152x37x24mm)/ 2.3oz (65g)	

ORDERING

PH50	Waterproof pH Pen
PH60	Waterproof pH Meter with Temperature
PH103	Tripak buffers (6ea - 4,7,10pH+2 Rinse solutions)

EC100/EC150/EC170 Conductivity/TDS/Salinity Meters

Waterproof meters with one high accuracy multi-ranging sensor
- Units of measure (model dependent) include µS/cm, mS/cm, ppm, ppt, °F, and °C
- Large 3-1/2 digit (2000 count) LCD display
- Data Hold, Low battery indication, and Auto Power off with disable
- Adjustable Automatic Temperature Compensation
- Waterproof design to withstand wet environment – meets IP65 standard

Model EC100 Additional Features
- Measures Conductivity and Temperature with simultaneous readout display
- Two ranges for Conductivity with one point calibration per range

Model EC150 Additional Features
- Measures Conductivity, TDS and Temperature
- Adjustable Conductivity to TDS ratio factor from 0.4 to 1.0 (calculates the TDS value)
- Two ranges for Conductivity and TDS with one point calibration per range

Model EC170 Additional Features
- Measure Salinity in aquaculture, environmental studies, ground water, Koi ponds, irrigation, drinking water, and other applications
- Autoranging meter offers 2 ranges of measurement
- Built-in NaCl Conductivity to TDS conversion factor
- Fixed Temperature Coefficient and Normalization Temperature
- One calibration point per range

EC150
(Conductivity/TDS)

EC100
(Conductivity)

EC170
(Salinity)

Complete with sensor with cap and four LR44 button batteries; 1 year warranty. Order Conductivity standards separately (required for calibration)

SPECIFICATIONS

Conductivity (EC100/EC150)	0 to 1999µS/cm (0 to 19.99mS/cm)	1µS/cm (0.01mS/cm)	±1% FS
TDS (EC150 only)	0 to 1999ppm (0 to 19.99ppt)	1ppm (0.01ppt)	±1% FS
Salinity (EC170 only)	0 to 10.00ppt (10.1 to 70.0ppt)	0.01ppt (0.1ppt)	±2% FS
Temperature	32° to 122°F (0 to 50°C)	0.1°F/°C	±0.9°F/0.5°C
Dimensions/Wt	6.5 x 1.4 x 1.3" (165 x 35 x 32mm)/ 3.8oz (110g)		

ORDERING

EC100	Conductivity Meter
EC150	Conductivity/TDS Meter
EC170	Salinity Meter
EX006	Weighted base with 5 solution cups
EX007	Spare sample solution cups (24pk)
EC-1413-P	1413µS Conductivity Standard (2 bottles - 1 pint each)
EC-12880-P	12880µS Conductivity Standard (2 bottles - 1 pint each)
CA895	Small vinyl carrying case with belt loop

N *Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.*

pH Electrodes

60120B - Mini size

601500 - Standard size

601100 - Flat Surface

Choice of Standard or Specialized electrodes with Ag/AgCl gel filled (fast response: 95% in 5sec)

Models 60120B and 601500 — General purpose pH/Ref electrodes

• Rugged, polycarbonate construction features glass pH sensing bulb surrounded by protective teeth. pH range (0 to 14pH), operating temperature (0 to 80°C). Choice of Mini or Standard size.

Model 601100 — Flat surface electrode (Easy to clean)

• PVC bodied electrode, ideal for pH of solid products with minimal moisture like cheese, soils or electrophoretic/agar gels. pH range (0 to 14pH), operating temperature (5 to 80°C).

ORDERING	
60120B	Mini pH Electrode (10 x 120mm)
601500	Standard pH Electrode (12 x 160mm)
601100	Flat Surface pH Electrode (15 x 106mm)

ExStik® Replacement pH, ORP, and Chlorine Electrode Modules

PH105   **CL205**   **RE305**   **PH113**

Flat surface pH, Chlorine, and ORP electrode modules

Reference Refilling Solution Kit for PH115 Refillable pH electrode module

Interchangeable pH, ORP, and Chlorine sensor modules for ExStik® series meters featured on (p. 144 and 146)

• ATC via built-in Pt-100Ω sensor (PH105, PH115 & CL205)

• Refillable pH electrode (PH115) provides an economical way to refill your electrode, eliminates the problem of limited electrode shelf life, contamination, and usage life in aggressive applications

• Note: The PH105, CL205 and RE305 replacement modules are not interchangeable with ExStik® II meters shown on p. 145

• 6 month conditional warranty

ORDERING	
PH105	pH ExStik® Electrode Module
PH115	Refillable pH ExStik® Electrode Module
PH113	Reference Refilling Solution Kit for PH115
CL205	Chlorine ExStik® Electrode Module
RE305	ORP ExStik® Electrode Module

pH Buffers

Convenient calibration solutions for your pH meter

• Easy to use, already made fresh pH buffers for calibration

• Helpful table shows what the pH value should be vs. the temperature of the buffer solution measured

• Rinsing solution used for cleaning off the pH electrode before and after taking the next measurement from a different solution to prevent contamination

• Convenient pouch eliminates the need for a cup to store buffer or rinsing solution

• PH103 contains 6 pouches of each buffer (pH 4.00, 7.00, and 10.00), plus 2 Rinsing solutions

• Pint size pH buffer solutions available (PH4-P, PH7-P, and PH10-P)

ORDERING	
PH4-P	pH 4 Buffer Calibration Solution (2 bottles - 1 pint each)
PH7-P	pH 7 Buffer Calibration Solution (2 bottles - 1 pint each)
PH10-P	pH 10 Buffer Calibration Solution (2 bottles - 1 pint each)
PH103	Tripak Buffer pouches (6ea: 4, 7, 10pH, 2 Rinse solutions)

NEW

PH220-C

PH210 Compact pH/ORP/Temp Meter

Displays pH or mV and Temperature simultaneously

- BNC input accepts standard pH or ORP electrodes (sold separately)
- Manual or Automatic Temperature Compensation (via optional Temperature Probe)
- Automatic 3-point calibration (4, 7, and 10pH)
- Data Hold and Min/Max
- Auto Power Off with disable feature
- Complete with 9V battery and soft case (pH, ORP, Temperature Probes, and pH buffers sold separately - see Accessories on the left)

PH220 Waterproof Palm pH/Temp Meter

Large LCD display in rugged housing with choice of stick or cabled pH Electrode

- Displays pH and Temperature simultaneously
- Automatic Buffer recognition
- Automatic Temperature Compensation via Pt-100 sensor built into electrode
- Low Battery indicator and Auto Power off
- Waterproof housing (meets IP57)
- Rugged design for handheld or wall mount (magnetic back)
- Complete with waterproof meter, pH electrode, protective holster, pH 4 & 7 buffers (1 pouch ea.), and 9V battery
- **Model PH220-C** Kit includes ATC pH polycarbonate electrode (12mm diameter) with 39" (1m) cable
- **Model PH220-S** Kit includes ATC pH stick type polycarbonate electrode (12mm diameter) for direct connection to meter

IP57 Waterproof Dustproof

For Rugged, Accurate Results

Extech field-tested lab instruments are fast-responding tools designed to deliver accurate and repeatable readings with waterproof and datalogging models available.

ACCESSORIES

60120B	Mini pH Electrode (10 x 120mm)
601500	Standard pH Electrode (12 x 160mm)
601100	Flat Surface pH Electrode (15 x 106mm)
67500B	ORP Electrode (13 x 154mm)
6015WC	Waterproof pH Electrode with cable for PH220
6012WS	Waterproof Stick Type pH Electrode for PH220
PH305	Spare pH Electrode for PH300
PH4-P	pH 4 Buffer Solution (2 bottles - 1 pint each)
PH7-P	pH 7 Buffer Solution (2 bottles - 1 pint each)
PH10-P	pH 10 Buffer Solution (2 bottles - 1 pint each)
PH103	Tripak Buffer pouches (see photo above)
850185	RTD Stainless Steel Temp. Probe for the Oyster
850188	Temperature probe, stainless steel for PH210
UA100-240	100-240V AC Adaptor w/ 4 plugs (US, EU, UK, AU)

SPECIFICATIONS	PH210	■ PH220-C ┃ ▲ PH220-S
Type	Cabled pH Electrode (sold separately)	■ Cabled pH Electrode ┃ ▲ Stick pH Electrode
pH	0.00 to 14.00pH	0.00 to 14.00pH
mV	-1999 to 1999mV	—
Temperature	32 to 212°F/0 to 100°C (manual) 32 to 140°F/0 to 60°C (Temperature probe)	32° to 212°F (0 to 99.9°C)
Max Resolution	0.01pH, 1mV, 0.1°	0.01pH, 0.1°
Basic Accuracy	±0.04pH, ±0.5%mV, ±1.5°F/±0.8°C	±0.01pH, ±0.8°F/0.5°C
Memory	15 readings	—
Dimensions/ Weight	5.3x2.4x1.3" (135x60x33mm)/ 7oz (200g)	4.4x3.1x1.5" (111x79x39mm)/ 9.2 oz (260g)
Warranty	1year	1yr (meter)/6mo conditional warranty (electrode)

CE All models are CE approved.

NOTE: It is recommended that you calibrate your conductivity meter to conductivity standards before use.

Meter/accessories packaged in hard case

Includes SD memory card

PH300 Waterproof pH/Temperature Kit

Measures pH, mV, and Temperature

- Automatic calibration (4, 7, and 10pH)
- Choice of 3 point calibration for better accuracy
- Automatic Temperature Compensation
- Memory stores up to 200 labeled readings
- Waterproof housing (meets IP57)
- Large blue backlit dual LCD displays both pH and Temperature readings
- Auto power off with disable function
- Complete with pH/mV/ Temperature electrode, pH calibration solutions (4, 7, and 10pH), 2 AA batteries, and hard carrying case

Oyster™ Series pH/ORP/Temp Kits

Exclusive Oyster™ Design can be used in the lab or in the field

- Large LCD built into adjustable "flip-up" cover displays pH or mV and Temperature simultaneously
- Convenient neckstrap holds meter while you take measurements
- Records 25 labeled readings
- Min/Max mode; Auto or Manual Temperature compensation (ATC/MTC)
- Self diagnostics display codes
- Auto Power off
- 5 point buffer recognition with adjustable buffer values
- Optional ORP electrode (67500B) and Universal AC Adaptor (UA100-240)
- **Model OYSTER-15** Kit includes Oyster-10 meter, neckstrap, 9V battery, 60120B mini pH electrode, sample buffers (4 and 7pH), and carrying case
- **Model OYSTER-16** Kit includes Oyster-15 plus RTD Temperature probe

SDL100 pH/ORP/ Temperature Datalogger

Datalogger date/time stamps and stores 20M readings on a 2G SD card in Excel® format for easy transfer to a PC

- ATC or manual Temperature compensation
- 3 point calibration ensures the best linearity and accuracy
- Selectable data sampling rate: 1 second to 8hrs:59min:59sec
- Manually store/recall up to 99 readings
- Large backlit dual LCD
- Record/Recall MIN, MAX readings
- Data Hold plus Auto power off with disable function
- Built-in PC interface
- Complete with 6 x AA batteries, SD card, sample buffers, mini pH electrode (60120B), temperature probe (850188), and hard carrying case; Optional Universal AC Adaptor UA100-240

PH300	■ OYSTER-15	▲ OYSTER-16	SDL100 N	SPECIFICATIONS
Cabled pH Electrode	■ Meter+pH electrode+case | ▲ Meter+pH electrode+ case+Temp probe	Cabled pH Electrode	Type
-2.0 to 19pH	0.00 to 14.00pH	0 to 14pH	pH
-1999mV to 1999mV	-999 to 999mV	-1999mV to 1999mV	mV
32 to 212°F (0 to 100°C)	32° to 212°F (0 to 99.9°C)	32 to 149°F (0 to 65°C)	Temperature
0.01pH, 1mV, 0.1°	0.01pH, 1mV, 0.1°	0.01pH, 1mV, 0.1°	Max Resolution
±0.02pH, ±0.15mV, ±1°F/0.5°C	±0.02pH, ±2mV, ±0.8°F/0.5°C	±0.02pH, ±0.5% mV, ±1.8°F/1°C)	Basic Accuracy
200 readings	25 readings	20M readings on 2G SD card	Memory
4.7x2.6x1.2" (120x65x31mm)/6.3oz (180g)	3.7x4.2x2" (94x107x51mm)/ 12oz (340g)	7.2x2.9x1.9" (182X73X48mm)/16oz (455g)	Dimensions/ Weight
1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	3yr (meter)/6mo conditional warranty (electrode)	Warranty

Ensuring Water Quality

Extech offers water quality testing tools. Find Extech on the job in wastewater treatment facilities, water treatment, industrial systems (boiler water systems, cooling towers, cooling systems, closed loops), alternative farming (hydro-/aeroponics), fish farming, lab testing, pool maintenance, R&D, and more.

ACCESSORIES	
EC-84-P	84µS Conductivity Standard (2 bottles - 1 pint each)
EC-1413-P	1413µS Conductivity Standard (2 bottles - 1 pint each)
EC-12880-P	12880µS Conductivity Standard (2 bottles - 1 pint each)
EC210-P	Replacement Conductivity/TDS Cell for EC210
EC605	Spare Polymer Conductivity Cell for EC600
804010A	Polymer Conductivity Cell for 341350A-P
PH305	Spare pH Electrode for EC600
60120B	Spare Mini pH Electrode for 341350A-P
67500B	ORP Electrode (13 x 154mm)
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)
850190	Thermistor Probe (32 to 194°F/0 to 90°C) for 341350A-P

SPECIFICATIONS
Conductivity
TDS/Salinity
pH
mV
Temperature
Max. Resolution
Basic Accuracy
CE Approved
Dimensions
Warranty

EC210 Compact Conductivity/TDS Meter

Adjustable Temperature compensation factor to maintain accuracy

- Simultaneous display of Conductivity or TDS with Temperature
- Automatic Temperature Compensation
- Temperature compensation factor adjustable between 0 to 5.0% per °C
- Min/Max and Data Hold functions
- Auto Power Off with disable feature
- Use optional 1413µS Conductivity Standard (EC-1413-P) for calibration
- Complete with Conductivity cell and 39" (1m) cable, 9V battery, and soft case

EC600 Waterproof pH/ORP/Conductivity/TDS Kit

Measures Conductivity, TDS, Salinity, Resistivity, pH, mV and Temperature

- Waterproof housing (meets IP57)
- Choice of 3 point pH calibration
- One point Conductivity calibration – automatically recognizes 8 calibration solutions
- Automatic Temperature Compensation (non-linear compensation for purified water <10µS/cm to improve measuring accuracy)
- Memory stores up to 300 labeled readings
- Large blue backlit dual LCD display
- Auto power off with disable function
- Complete with pH/mV/Temperature electrode, polymer Conductivity cell, pH calibration solutions (4, 7, and 10pH), Conductivity calibration solution (1413µS), 2 AA batteries, and hard carrying case

Meter/accessories packaged in hard case

341350A-P pH/Conductivity/TDS/ORP/Salinity Meter

Exclusive Oyster™ Design can be used in the lab or in the field

- Large dual LCD built into adjustable "flip-up" cover
- Microprocessor based with splash-proof housing and front panel tactile touch pad to slope and calibrate
- Rugged design for handheld or benchtop use
- Convenient neckstrap holds meter while you take measurements
- Stores 25 labeled readings
- ATC for Conductivity/TDS
- Manual Temperature Compensation: pH (0 to 100°C)
- Includes mini pH electrode, thermistor probe (850190), sample buffers, polymer conductivity cell, 9V battery, neckstrap & case; Optional Universal AC adaptor (UA100-240) and ORP electrode (67500B)

Meter and accessories packaged in hard case

EC210	EC600	341350A-P
2000µS/cm, 20mS/cm, 100mS/cm	0.00 to 199.9mS	10 to 19,990µS/cm
1200ppm, 12,000ppm, 66,000ppm	0 to 100g/L	TDS range: 10 to 19,990ppm (mg/L)
—	-2 to 19pH	0.01 to 14.00pH
—	-1999mV to + 1999	—
32 to 122°F (0 to 50°C)	pH/mV: 32 to 212°F (0 to 100°C); Other: 32 to 122°F (0 to 50°C)	Thermistor probe: 32 to 194°F (0 to 90.0°C)
1µS/cm, 0.01mS/cm, 0.1mS/cm, 1ppm 10ppm, 100ppm, 0.1°F/°C	0.01pH, 1mV, 0.01µS, 0.01mg/L, 0.01ppt, 0.1°F/°C	0.1mS; 0.01pH
±2% FS, ±1.5°F/0.8°C	±0.02pH, ±0.15mV, ±1.5%FS, ±1°F/0.5°C	±2%, ±0.02pH
Yes	Yes	Yes
Meter: 5.3 x 2.4 x 1.3" (135 x 60 x 33mm)/ 10.4oz (295g) includes probe and battery	4.7x2.6x1.2" (120x65x31mm)/6.3oz (180g)	3.7x4.2x2" (96x108x45mm)/ 12oz (340g)
1 year (6 months electrode)	1 year (6 months electrode)	1 year (6 months electrode)

NOTE: It is recommended that you calibrate your conductivity meter to conductivity standards before use.

SDL150 Dissolved Oxygen Meter/Datalogger

Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC

- Dual display of Oxygen Concentration and Temperature
- Measures dissolved oxygen from 0 to 20.0mg/L and 0 to 100.0% oxygen plus temperature from 32 to 122°F (0 to 50°C)
- Automatic Temperature Compensation from 0 to 50°C via temperature sensor built into polarographic type oxygen probe
- Selectable data sampling rate: 1 second to 8hrs:59min:59sec
- Manually store/recall up to 99 readings
- Large backlit dual LCD
- Record/Recall MIN, MAX readings
- Data Hold plus Auto power off with disable function
- 3 year warranty (meter)/ 6 months conditional warranty (electrode)
- Complete with 6 x AA batteries, SD card, probe, spare probe head with diaphragm, electrolyte, and hard carrying case; Optional Universal AC adaptor

Includes SD memory card

SPECIFICATIONS	DISSOLVED OXYGEN	OXYGEN	TEMPERATURE
Range	0 to 20.0 mg/L	0 to 100.0%	32 to 122°F (0 to 50°C)
Accuracy	±0.4 mg/L	±0.7%	±0.8°C/1.5°F
Probe Compensation & Adjustment	Salt: 0 to 50%	Altitude: 0 to 8910m	Temp: 0 to 50°C
Datalogging	99 data (manual)/20M data (4G SD card)		
Dimensions/Weight	Meter: 7.2x2.9x1.9" (182x73x48mm)/ 25.6oz(725g) Probe: Probe: 0.8Dx4.9"L		

ORDERING	
SDL150	Dissolved Oxygen Meter/Datalogger
407510-P	Dissolved Oxygen probe with 13ft (4m) cable
780417A	Replacement Membranes (10/pack)
780418	DO Internal Fill Solution (2pks — 50mL each)
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)

407510 Heavy Duty Dissolved Oxygen Meter

Dual display of Oxygen concentration in solutions and Temperature — plus RS-232 PC interface

- Measures dissolved oxygen, oxygen, plus temperature
- Min/Max/Avg, Data Hold and Auto power off
- Automatic Temperature Compensation
- Large 1.4" (36mm) LCD display
- Built-in PC interface with optional Data Acquisition Software 407001 (see p. 114)
- 3 year warranty (meter)/ 6 months conditional warranty (electrode)

Complete with 0.8" (20mm) probe on 13ft (4m) cable, membranes, protective holster with stand, 9V battery, and carrying case

SPECIFICATIONS	DISSOLVED OXYGEN	OXYGEN	TEMPERATURE
Range	0 to 19.9mg/L	0 to 100.0%	32 to 122°F (0 to 50°C)
Accuracy	±0.4mg/L	±0.7%	±1.5°F/ ±0.8°C
Probe Compensation & Adjustment	Salt: 0 to 39%	Altitude 0 to 3900m	Temp: 0 to 50°C
Dimensions/ Weight	Meter: 7x3x1.3" (178x74x33mm); Probe: 0.8Dx4.9"L		
Weight	17oz (482g)		

ORDERING	
407510	Heavy Duty Dissolved Oxygen Kit
407510-P	Dissolved Oxygen probe with 13ft (4m) cable
780417A	Replacement Membranes (10/pack)
780418	DO Internal Fill Solution (2pks — 50mL each)

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 160 for a complete listing.*

DO700 Waterproof Series Dissolved Oxygen Kit

8-in-1 Meter — Measures DO concentration/saturation, pH, mV, Conductivity, TDS, Salinity, Resistivity and Temperature

- Automatic salinity compensation and manual barometric pressure compensation for DO measurements
- Waterproof housing (meets IP57) design and large blue backlit dual LCD display
- Choice of 3 point pH calibration for better accuracy; Automatic Temperature Compensation
- One point Conductivity calibration – automatically recognizes 8 calibration solutions
- Memory stores up to 400 labeled readings
- Auto power off with disable function
- 1 year warranty (meter)/ 6 months conditional warranty (electrode)
- Complete with Dissolved Oxygen probe with 3 membrane caps and DO internal fill solution (30mL), pH/mV/Temperature electrode, polymer Conductivity cell, pH calibration solutions (4, 7, and 10pH), Conductivity calibration solution (1413µS), 2 AA batteries, and hard carrying case

CE **IP57** Waterproof Dustproof

Complete kit includes all the necessary accessories stored in a hard case for easy transportation. Ideal for field use.

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Dissolved Oxygen (Concentration)	0 to 40.00mg/L	0.01mg/L	±1.5%FS
Dissolved Oxygen (Saturation)	0 to 200.0%	0.1%	±1.5%FS
pH	-2.00 to 19.99pH	0.01pH	±0.02pH
mV	-1999 to + 1999mV	1mV	±0.15mV
Conductivity	0.00 to 199.9mS	0.01µS	±1.5%FS
TDS	0 to 100g/L	0.01mg/L	±1.5%FS
Salinity	0 to 100ppt	0.01ppt	±1.5%FS
Resistivity	0 to 100M cm	0.1	±1.5%FS
Temperature (for pH & mV)	32 to 212°F (0 to 100°C)	0.1°	±1°F/±0.5°C
Temperature (other)	32 to 122°F (0 to 50°C)	0.1°	±1°F/±0.5°C
Dimensions/Weight	4.7x2.6x1.2" (120x65x31mm)/ 6.3oz (180g)		

ORDERING	
DO700	Waterproof Series Dissolved Oxygen Kit
DO705	Dissolved Oxygen Electrode
DO703	Replacement Membrane Caps (3 caps)
PH305	Spare pH/mV/Temperature Electrode
EC605	Spare Polymer Conductivity Cell

DO210 Compact Dissolved Oxygen Meter

Take quick measurements of Dissolved Oxygen or % Oxygen

- Measures Dissolved Oxygen and % Oxygen plus Temperature
- Automatic Temperature Compensation via temperature probe sensor built into polarographic type oxygen probe
- Adjustable Altitude and Salinity Compensation
- Min/Max and Data Hold functions
- Auto Power Off with disable feature
- 1 year warranty (meter)/ 6 months conditional warranty (electrode)

NEW

Complete with DO probe with membrane and 13ft (4m) cable, two spare replacement membranes, electrolyte, 9V battery, and soft case

CE

SPECIFICATIONS	DISSOLVED OXYGEN	OXYGEN	TEMPERATURE
Range	0 to 20.0 mg/L	0 to 100.0%	32 to 122°F (0 to 50°C)
Basic Accuracy	±0.4 mg/L	±0.7%	± 1.5°F (±0.8°C)
Automatic Temperature Compensation (ATC)	32 to 122°F (0 to 50°C)		
Probe Compensation & Adjustment	Salt: 0 to 39% Altitude: 0 to 3900m		
Dimensions	Meter: 5.3 x 2.4 x 1.3" (135 x 60 x 33mm); Probe: 28mm(1.1")D x 190mm(7.5")L		
Weigh	15.7oz (446g) includes probe and battery		

ORDERING	
DO210	Dissolved Oxygen Meter
407510-P	Dissolved Oxygen Probe with 13ft (4m) cable
780417A	Replacement Membranes (10/pack)
780418	DO internal Fill Solution (2pks — 50mL each)

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*407760-NISTL: Limited NIST for Certificate of Traceability calibrated at 94.0 dB/1KHz

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.**

*42515-T-NISTL: Limited NIST for Certificate of Traceability for 42515 meter only
**42570-NISTL: Limited NIST for Certificate of Traceability from -4 to 1500°F (-20 to 815°C)
***445715-NISTL: Limited NIST for Certificate of Traceability calibrated at 75%

****AN320-NISTL: Limited NIST for Certificate of Traceability calibrated to wind velocity, %RH, and Air Temperature

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*NISTL: Limited NIST for Certificate of Traceability to all functions except IR Thermometer

CALIBRATION TRACEABLE TO NIST

Ⓝ *Indicates products that are available with optional calibration traceable to* **NIST.**

*NISTL: Limited NIST for Certificate of Traceability to all functions except IR Thermometer
**HT30-NISTL: Limited NIST for Certificate of Traceability to 33 and 75%RH and 21.0°C only
***HW30-NISTL: Limited NIST for Certificate of Traceability to stopwatch functions only
****IRT600-NISTL: Limited NIST for Certificate of Traceability to IR Temperature function only

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*MO300-NISTL: Limited NIST for Certificate of Traceability to %RH, Air temp & IR temperature

CALIBRATION TRACEABLE TO NIST

164 N Indicates products that are available with optional calibration traceable to NIST.

*SDL470-NISTL: Limited NIST for Certificate of Traceability to a single point in UVA and a single point in UVC modes
**VIR50-NISTL - Limited NIST for Certificate of Traceability to Type K and max IR Temperature of 1500°F (815°C)

All specifications and prices are subject to change without notice.

Calibration Traceable to NIST

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N *Indicates products that are available with optional calibration traceable to* **NIST.**
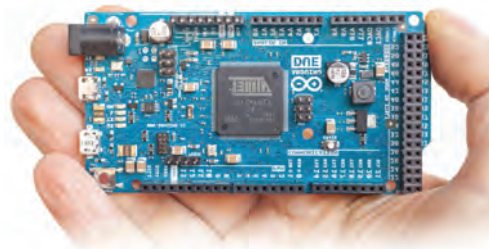
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Extech multimeters have been featured on the influential maker/hacker site, EEV Blog. The EX330 won the $50 multimeter shootout against 4 other comparable meters and the EX505 survived an extreme canyon trip.
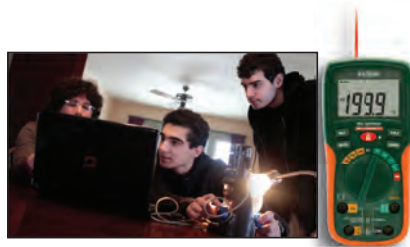
The New York Times
The New York Times explored the idea of "home labs" and touted the Extech's EX210 multimeter for its built-in infrared thermometer.

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