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Fluke 123/003S

Fluke 123/003S Industrial ScopeMeter User Manual

1. Introduction

This manual provides essential information for the safe and effective use of the Fluke 123/003S Industrial ScopeMeter. The Fluke 123/003S is a versatile handheld electrical test device that integrates a two-channel digital oscilloscope with a true RMS digital multimeter, designed for industrial applications. It is capable of viewing electrical signals and measuring various electrical properties.

2. Safety Information

Always adhere to safety precautions when operating the Fluke 123/003S ScopeMeter. Failure to do so may result in injury or damage to the instrument. This device is rated for CAT III installations to 600V, covering equipment in fixed installations. It meets European Standard (EN) 61010-1:2001, American National Standards Institute and International Society of Automation (ANSI/ISA) S82.02.01, CAN/CSA (Canadian Standards Association) C22.2 61010-1-04, and UL (Underwriters Laboratories) 61010-1-04 safety standards, and carries CE marking.

- Ensure the device and accessories are in good condition before use.
- Do not exceed the maximum input ratings for any function.
- Use only specified test leads and accessories.
- Always disconnect power to the circuit under test before making connections, if possible.
- Refer to the detailed safety instructions in the included user manual for comprehensive guidelines.

3. Setup and Unpacking

Upon receiving your Fluke 123/003S Industrial ScopeMeter, carefully unpack all components and verify the contents against the list below. Inspect for any signs of damage.

3.1 What's in the Box

- Fluke ScopeMeter series 120 handheld oscilloscope/multimeter
- Set of test leads with mini clips and alligator clips
- BNC-to-banana adapter

- Rechargeable NiMH battery pack (installed)
- AC adapter/battery charger
- User manual
- SCC120 kit (for models with kit):
    - FlukeView software CD-ROM
    - RS-232/USB adapter cable
    - Hard carrying case

Image 1: Fluke 123/003S Industrial ScopeMeter with its complete SCC120 kit, including the main unit, test leads, adapters, power supply, and hard carrying case.

3.2 Powering the Device

The Fluke 123/003S operates on a rechargeable NiMH battery pack, which comes pre-installed. To charge the battery or operate the device from a power outlet, use the included AC adapter/battery charger. Connect the charger to the device and then to a standard 120V, 60Hz AC outlet. The device features an automatic shutdown function after 30 minutes of non-use to conserve battery life, and a low-battery indicator will signal when recharging is necessary.

4. Operating Instructions

The Fluke 123/003S combines the functionality of an oscilloscope and a multimeter. Familiarize yourself with the front panel controls and display before operation.

4.1 Oscilloscope Function

The two-channel digital oscilloscope allows for viewing electrical signals. It features a real-time sample rate of 25MS/s and a record length of 512 points per channel. Key features include:

- **Automatic and Cursor Measurements:** For in-depth waveform analysis.
- **Edge and Video Triggers:** To isolate specific signals.
- **Advanced Automatic Triggering:** Recognizes signal patterns and optimizes triggering, timebase, and amplitude settings automatically.
- **External Triggering:** An optical port supports attachment of a Fluke ITP120 probe (sold separately).

4.2 Multimeter Function

The true RMS, 5,000-count multimeter provides accurate readings for both linear and non-linear loads. It can measure:

- AC and DC voltage up to 1,250V
- Resistance up to 50MΩ
- Capacitance up to 500µF
- Frequency up to 50MHz
- Duty cycle from 2% to 98%

Additional multimeter features include:

- **Ranging Modes:** Manual (user selects range) and Auto (device selects range).
- **Relative Function:** Sets a reference value and displays subsequent measurements as deviations.
- **Touch-Hold Mode:** Captures a stable reading.
- **Data-Hold Function:** Freezes a reading on the display.
- **Continuity Buzzer:** Confirms electrical conduction.
- **Diode Check:** Detects proper diode function.

4.3 Display and Data Management

The device features a 2.83-inch monochrome LCD with a resolution of 240 x 240 pixels, equipped with a backlight for visibility in low-light conditions. Up to 10 setups and screenshots can be stored in the internal memory.
The **TrendPlot chart recorder** graphs minimum and maximum values over time for both oscilloscope and multimeter functions. It can be programmed for various time scales, from 15 seconds per division over 120 seconds to 2 days per division over 16 days.

4.4 Connectivity

An optically isolated RS-232 interface allows connection to a compatible printer for direct data printing or to a PC for data storage and analysis. The SCC120 kit includes an RS-232/USB adapter cable and FlukeView CD-ROM software, compatible with Microsoft Windows 2000 and later operating systems, for enhanced data management.

5. Maintenance

To ensure the longevity and accuracy of your Fluke 123/003S ScopeMeter, follow these maintenance guidelines:

- **Battery Charging:** Recharge the NiMH battery pack regularly using the provided AC adapter/charger. Avoid deep discharge cycles to prolong battery life.

- **Cleaning:** Clean the instrument's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device and its accessories in the hard carrying case (if included with SCC120 kit) in a dry, dust-free environment when not in use.
- **Calibration:** Periodic calibration by authorized service centers is recommended to maintain measurement accuracy. Refer to the full user manual for recommended calibration intervals.

6. Troubleshooting

If you encounter issues with your Fluke 123/003S, consider the following basic troubleshooting steps:

- **Device Not Powering On:** Check if the battery is charged. Connect the AC adapter/charger and attempt to power on.
- **Incorrect Readings:** Ensure test leads are properly connected and not damaged. Verify the correct measurement function is selected.
- **Display Issues:** Check for physical damage. If the display is dim, ensure the backlight is enabled and the battery is sufficiently charged.
- **Connectivity Problems:** For PC connection, ensure the RS-232/USB adapter is correctly installed and the FlukeView software is properly configured.

For more complex issues, refer to the comprehensive troubleshooting section in the full user manual or contact Fluke customer support.

7. Specifications

Feature	Specification
Display	2.83" monochrome LCD, 240 x 240 pixels, backlight
Bandwidth	20MHz
Input Channels	Two
Real-time Sample Rate	25MS/s
Record Length	512 points per channel
Maximum DC Voltage Measured	1,250V
Maximum Resistance Measured	30MΩ
Maximum Capacitance Measured	500µF
Maximum Frequency Measured	50MHz
Installation Rating	CAT III, 600V
Standards Met	EN 61010-1:2001, ANSI/ISA S82.02.01, CAN/CSA C22.2 61010-1-04, UL 61010-1-04; CE marking

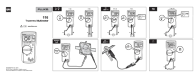
Feature	Specification
Power Source	Rechargeable NiMH battery pack or 120V, 60Hz AC adapter/charger
Interface	Optically isolated RS-232

8. Warranty and Support

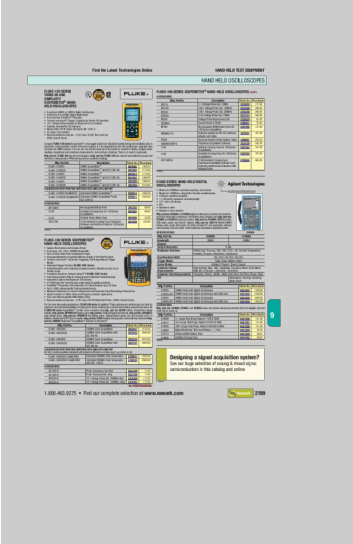
The Fluke 123/003S Industrial ScopeMeter is manufactured by Fluke Corporation, headquartered in Everett, WA. For specific warranty details, please refer to the warranty card included with your product or visit the official Fluke website. For technical support, service, or replacement parts, please contact Fluke customer service directly. Contact information can typically be found in the full user manual or on the Fluke Corporation website.

Related Documents - 123/003S

	Fluke FEV100 Adapter Kit for Electric Vehicle Charging Stations: Technical Data and Specifications Explore the technical specifications, features, and testing procedures for the Fluke FEV100 Adapter Kit, designed to safely and efficiently test electric vehicle charging stations (EVSEs). Includes safety information, compatibility, and ordering details.
	Fluke 106/107 Palmsized Digital Multimeters: Technical Specifications and Features Detailed technical specifications, product highlights, and general information for the Fluke 106 and 107 palmsized digital multimeters. Learn about their electrical specifications, accuracy, features, and included equipment.
	Fluke 107 Handheld CAT III Digital Multimeter - Technical Specifications Detailed technical specifications, features, and general information for the Fluke 107 handheld CAT III digital multimeter. Includes electrical measurements, safety ratings, and ordering details.
	Fluke Handheld Test Equipment Catalog: Oscilloscopes and Multimeters Explore a comprehensive range of Fluke handheld oscilloscopes and digital multimeters, including Scopemeters, industrial multimeters, and specialized test equipment. Find detailed specifications, accessories, and combo kits for various electrical and electronic testing needs.

	[Fluke 107 CAT III Digitale Multimeter Specificaties en Kenmerken] Gedetailleerde specificaties, kenmerken en technische gegevens voor de Fluke 107 CAT III digitale multimeter in handpalmformaat. Inclusief elektrische en algemene specificaties, afmetingen, garantie en informatie over EURO-INDEX diensten.
	[Fluke 116 True-rms Multimeter: Quick Reference Guide] Quick reference guide for the Fluke 116 True-rms Multimeter, detailing its functions, measurement capabilities, and usage for electrical testing.

Documents - Fluke – 123/003S



[Fluke Handheld Test Equipment Catalog: Oscilloscopes and Multimeters]
Explore a comprehensive range of Fluke handheld oscilloscopes and digital multimeters, including Scopemeters, industrial multimeters, and specialized test equipment. Find detailed specifications, accessories, and combo kits for various electrical and electronic testing needs.
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[pdf] User Manual Specifications Datasheet

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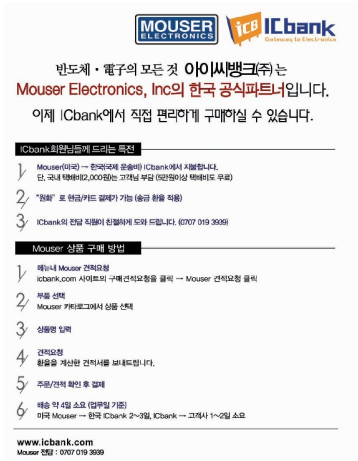

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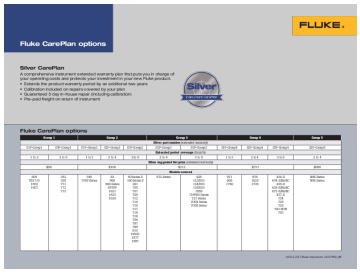

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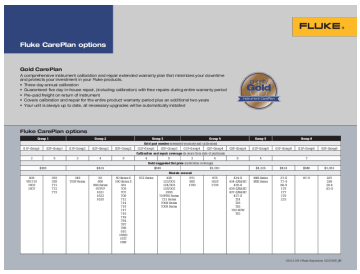

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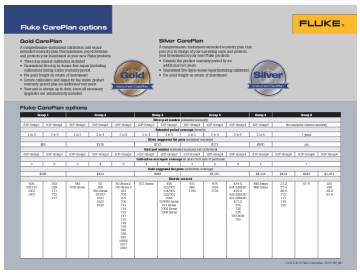

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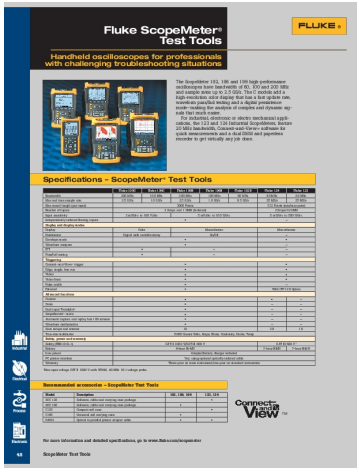

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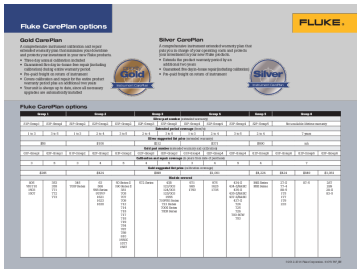

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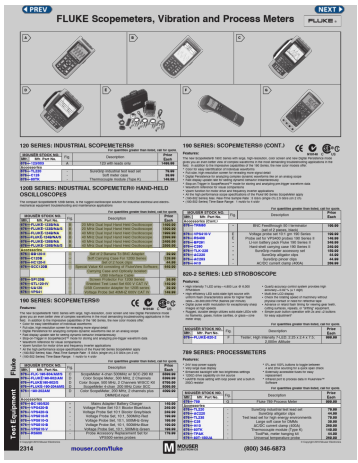

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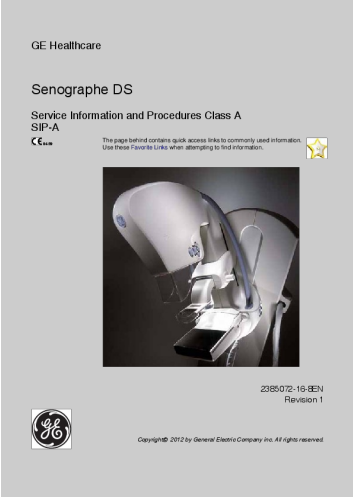

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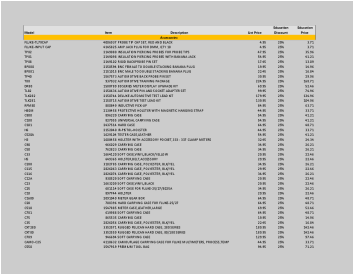

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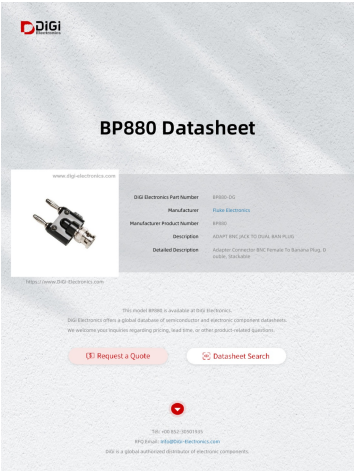

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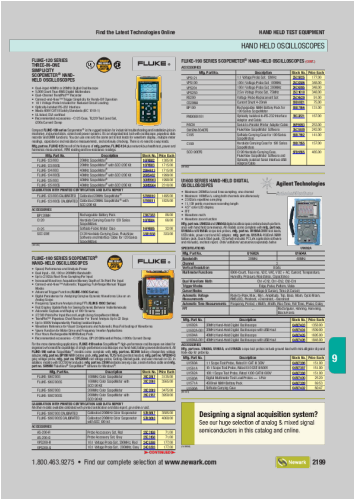

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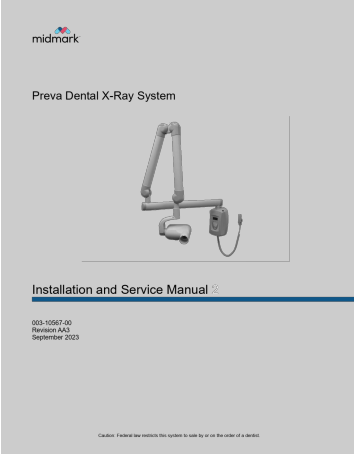

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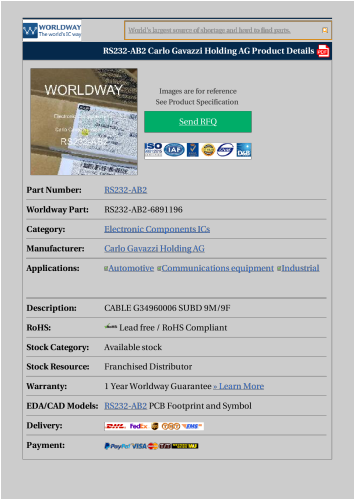
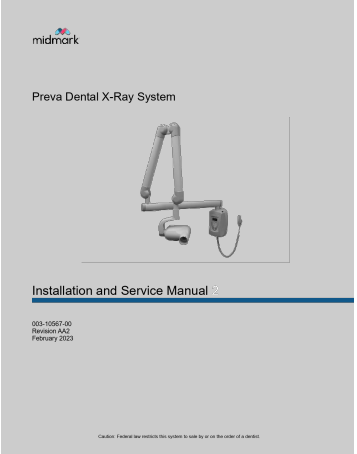
lang:en score:10 filesize: 24.03 M page_count: 290 document date: 2023-09-21



[RS232-AB2 Carlo Gavazzi Holding AG Cable - Product Details | Worldway Electronics]

Product details for the RS232-AB2 cable assembly from Carlo Gavazzi Holding AG, including part number, specifications, applications (Automotive, Communications, Industrial), RoHS compliance, and availability from Worldway Electronics.

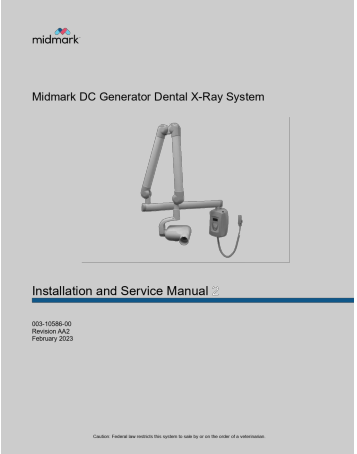
lang:en score:10 filesize: 81.71 K page_count: 3 document date: 2025-03-10



[Midmark Preva Dental X-Ray System: Installation and Service Manual]

Comprehensive guide for installing and servicing the Midmark Preva Dental X-Ray System, covering safety, operation, components, and troubleshooting for dental professionals.

lang:en score:9 filesize: 23.81 M page_count: 286 document date: 2023-02-27



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lang:en score:9 filesize: 13.52 M page_count: 287 document date: 2023-02-27

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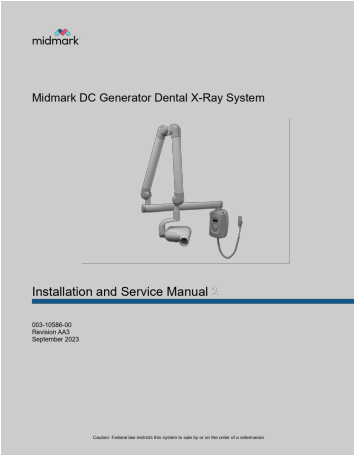
untitled Multimeters OscilloscopesA user friendly feature packed and genuinely hand held oscilloscope with a number of characteris tics such as low noise high sensitivity modv1jameco Jameco catalogs c113 P138 srsltid AfmBOopXwg1jgCeTkn4 oNeXstNMZ5Phxp2QNRtafZXq MQQbJLiOOg1 |||

Multimeters Oscilloscopes 4-in-1 Lab Center This kit combines 4 different functions in one instrument for easy and compact measurement and testing. DDS Function Generator: Frequency range: 0.1Hz-10MHz Wave outputs: Sine, Square, Triangle, Pulse, TTL output Frequency Counter: Channel A: 1Hz-11...

lang:en score:9 filesize: 161.64 K page_count: 1 document date: 2011-08-15



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lang:en score:9 filesize: 24.12 M page_count: 291 document date: 2023-09-22

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Function Generators Function Generators, Oscilloscopes Probe Sets DWeb Code: DEJ 229251 685329 2112831 Part No. Manufacturer Mfr. Part No. Features Bandwidth # of Waveform Types 229251 Instek GFG-8020H Built-in 4-digit counter with CMOS output 2MHz 5 2160411 Instek SFG-1003 DDS with F...

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[pdf] Catalog

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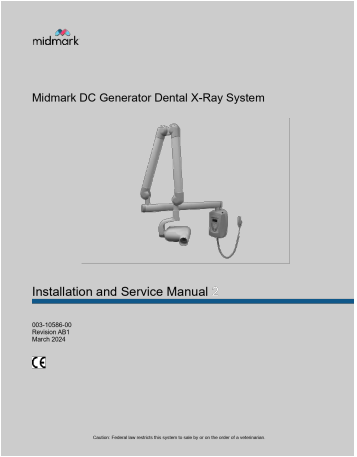

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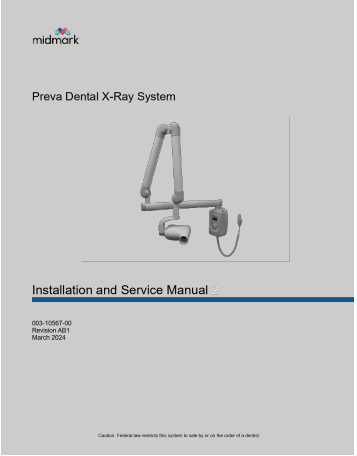

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