









It's all about simplicity



HVACR measurement instruments

It's all about simplicity

Pressure / Temperature / Humidity / Air velocity / Air flow rate



Our portable HVACR instruments cover a broad spectrum of measurements, from temperature, relative humidity and pressure, to air velocity and air flow rate.

We offer a full range of easy-to-use instruments: dual input thermometer (Si-TT3), infrared thermometer (Si-TI3), thermo-hygrometer (Si-HH3), digital differential pressure manometer (Si-PM3), vane thermo-anemometer (Si-VV3), hotwire thermo-anemometer (Si-VH3), gas leak detector (Si-CD3) and refrigerant leak detector (Si-RD3).

What's more, our user-friendly Si-HVACR Measurement MobileApp displays measurement data right on your smartphone or tablet.



Mobile app

Si-HVACR Measurement MobileApp

With the Si-HVACR Measurement MobileApp, users can view and record measurements in real time.

Key features:

- View parameters in user-friendly format
- Access previously saved measurements and charts (average, min. & max. values, etc.)
- Generate reports (PDF, CSV or XML) and add up to four photos











Backlit LCD screen



Low consumption device



Magnetic backing for easy fixing



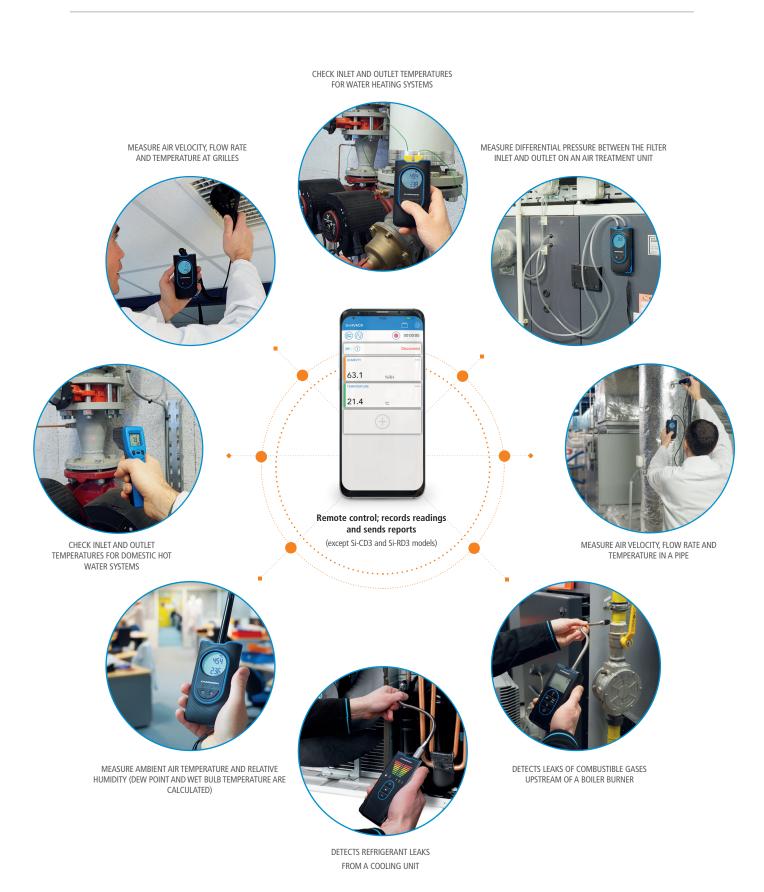
Carrying bag



Calculated values on mobile app

Applications

Our devices provide everything HVACR engineers need for their routine operations







Ventilation circuit

- Check filter fouling.

- Measure extractor fan pressure and air

flow rate. - Measure air flow in a pipe.

pipe coefficient.

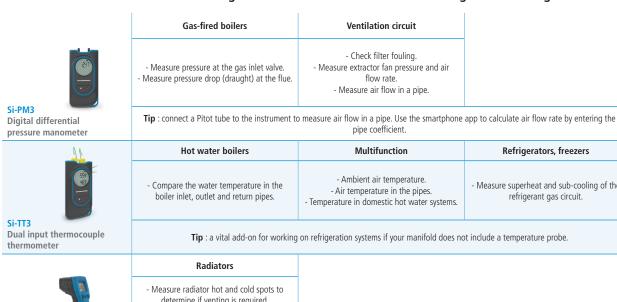
Multifunction





Refrigerators, freezers

Ventilation Air conditioning Refrigeration



Si-TI3

Infrared thermometer

Thermo-hygrometer

Hotwire thermo-anemometer

Si-VV3 Vane thermo-

Si-CD3

Gas leak detector

- Ambient air temperature. Measure superheat and sub-cooling of the - Air temperature in the pipes. refrigerant gas circuit. - Temperature in domestic hot water systems.

determine if venting is required.

Tip: vastly improves speed and convenience (measurements delivered remotely in real time). Can measure ambient temperature (via app). Capable of checking various temperature increases, including electrical heating. Affix a black strip on non-black surfaces and adjust the emissivity of the surface (as per the manual) for accurate measurement.



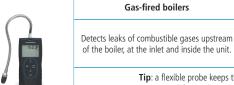
The app displays psychometric parameters such as dew point and wet bulb temperature.

Air conditioning circuit - Measure air flow through system inlet and outlet grilles.

Tip: input the pipe cross-section in the app to calculate average air flow rate in addition to air velocity.

anemometer Air conditioning circuit - Measure air flow in pipes (and temperature). Si-VH3

Tip: input the pipe cross-section dimensions in the app to calculate average air flow rate in addition to air velocity. Use the hotwire thermo-anemometer instead of a vane thermo-anemometer for low-velocity or laminar air flows.



Tip: a flexible probe keeps the device's sensor in contact with gas pipes in even the hardest-to-reach places. Pay special attention to joints in the circuit. Check the condition of the filter and replace it if necessary. Follow the manufacturer's recommendations for replacing the sensor.

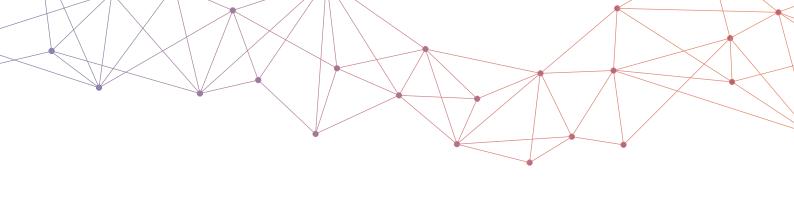
Si-RD3 Refrigerant leak detector	Heat pumps	Air-conditioning units	Refrigerators, freezers			
	Detects refrigerant leaks in every part of the cooling circuit.					
	Pay special attention to join	Tip : a flexible probe keeps the device's sensor in contact with gas pipes in even the hardest-to-reach places. Pay special attention to joints in the circuit. Check the condition of the filter and replace it if necessary. Follow the manufacturer's recommendations for replacing the sensor.				

Technical information

	Si-PM3	Si-HH3	Si-TT3	Si-TI3	Si-VV3	Si-VH3	Si-CD3	Si-RD3
Differential pressure	~	-	-	-	-	-	-	-
Air velocity and air flow rate with Pitot tube (optional)	~	-	-	-	-	-	-	-
Relative humidity	-	~	-	-	-	-	-	-
Dew point	-	~	-	-	-	-	-	-
Absolute humidity	-	~	-	-	-	-	-	-
Enthalpy	-	~	-	-	-	-	-	-
Mixing ratio	-	~	-	-	-	-	-	-
Wet bulb temperature	-	~	-	-	-	-	-	-
NTC temperature	-	~	-	-	~	~	-	-
K thermocouple temperature	-	-	~	-	-	-	-	-
Infrared temperature	-	-	-	~	-	-	-	-
Ambient temperature	-	~	-	~	-	-	-	-
Air velocity	-	-	-	-	~	~	-	-
Air flow	-	-	-	-	~	~	-	-
Combustible gases	-	-	-	-	-	-	~	-
Refrigerant gases	-	-	-	-	-	-	-	~
Carrying bag	~	~	~	~	~	~	~	~
Magnet at backside	~	~	~	-	~	~	-	-
Auto shut-off	10 min	10 min	10 min	15 sec	10 min	10 min	0 to 120 min	15 min
Battery life	170 h	250 h	400 h	14 h	120 h	20 h	20 h	> 12 h
Mobile app	~	~	~	~	~	~	-	-
Warranty	2-year	2-year	2-year	2-year	2-year	2-year	2-year	2-year

Measuring ranges

				lu.			1503	
	Si-PM3	Si-HH3	Si-TT3	Si-TI3	Si-VV3	Si-VH3	Si-CD3	Si-RD3
Differential pressure	-150 to +150 hPa -60 to 60 inH ₂ 0	-	-	-	-	-	-	-
Air velocity with Pitot tube (optional)	2 to 80 m/s 394 to 15,748 fpm	-	-	-	-	-	-	-
Air flow rate with Pitot tube (optional)	0 to 9,999 m³/h	-	-	-	-	-	-	-
Relative humidity	-	0 to 100 %HR	-	-	-	-	-	-
Dew point	-	-40 to +60 °C _{Td} -40 to 140 °F _{Td}	-	-	-	-	-	-
Absolute humidity	-	0 to 600 g/m ³	-	-	-	-	-	-
Enthalpy	-	0 to 10,000 kJ/kg	-	-	-	-	-	-
Mixing ratio	-	0 to 10,000 g/kg	-	-	-	-	-	-
Wet bulb temperature	-	0 to 60 °C _{Tw} 32 to 140 °F _{Tw}	-	-	-	-	-	-
NTC temperature	-	-20 to +60 °C -4 to 140 °F	-	-	-10 to +60 °C 14 to 140 °F	-10 to +60 °C 14 to 140 °F	-	-
K thermocouple temperature	-	-	-200 to +1,300 °C -328 to 2,372 °F	-	-	-	-	-
Infrared temperature	-	-	-	-40 to +500 °C -40 to 932 °F	-	-	-	-
Ambient temperature	-	-20 to +60 °C -4 to 140 °F	-	0 to 50 °C 32 to 122 °F	-	-	-	-
Air velocity	-	-	-	-	0,4 to 30 m/s 78.7 to 5,905 fpm	0 to 30 m/s 0 to 5,905 fpm	-	-
Air flow rate	-	-	-	-	0 to 9,999 m³/h 0 to 9,999 m³/min 0 to 9,999 m³/s 0 to 9,999 cfm	0 to 9,999 m ³ /h 0 to 9,999 m ³ /min 0 to 9,999 m ³ /s 0 to 9,999 cfm	-	-
CH ₄	-	-	-	-	-	-	0 to 10,000 ppm 0 to 1% vol 0 to 20% LEL	-
Refrigerant gases	-	-	-	-	-	-	-	0 to 3 g/year 0 to 30 g/year 0 to 300 g/year



Professional solutions for condensate management and indoor air quality measurement



INsights

Case studies, useful information and practical advice for HVACR and indoor air quality professionals.

sauermanngroup.com/en-INT/insights



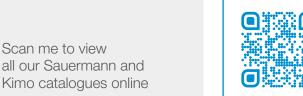




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