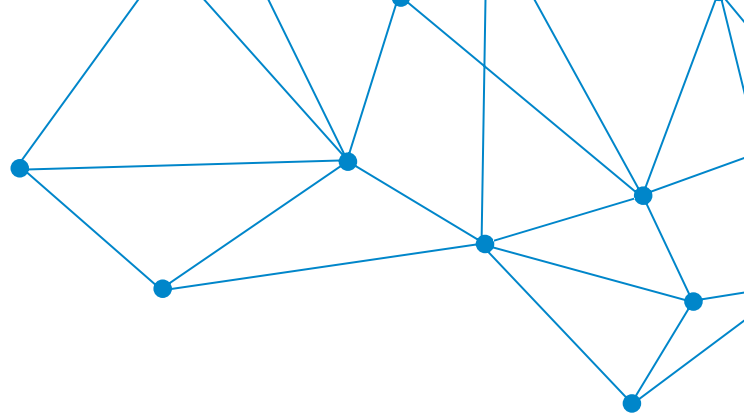


 **sauermann®**

KIMO®
INSTRUMENTS



HEATING AND COMBUSTION



ABOUT US



For more than 45 years, Sauermann Group has designed, manufactured and sold products and services dedicated to the industrial and HVACR markets. The Group specifically focuses on the detection, measurement and control of indoor air quality (IAQ).

sauermann®

KIMO
INSTRUMENTS

Member of the Verder group, Sauermann group operates two main brands:

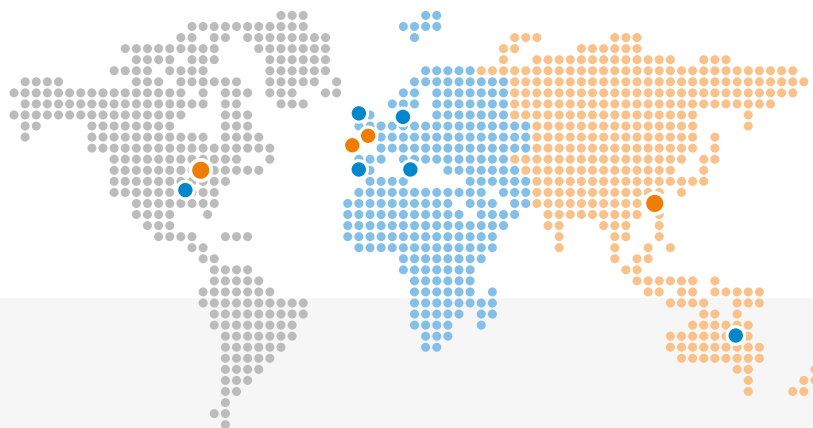
- The **Sauermann** brand, through condensate removal pumps, instruments and accessories, primarily addresses the needs of Heating, Ventilation, A/C or Refrigeration contractors.
- The **Kimo** brand, through measuring instruments, meets the air management needs in light commercial and industrial installations.

HIGH ACCURACY
UNMATCHED RELIABILITY
MULTIPLE APPLICATIONS

Measurement instruments: Sauermann measurement instruments monitor a broad spectrum of indoor air quality parameters and serve a wide range of applications, from building ventilation (heating and air conditioning) systems, to cold-chain installations and combustion gas analysis. Backed by our testing laboratories and in-house research and development programme, Sauermann instruments deliver the accuracy and reliability that HVACR engineers need.

LOW SOUND LEVEL
LOW FAIL RATE
HIGH PERFORMANCE

Condensate management solutions: Safe and effective condensate management for air quality systems can be a challenge. Sauermann pumps are designed to look good, while our patented piston technology delivers whisper-quiet operation and unrivalled reliability.



North America

● ● Sauermann N.A. Corp.,
New York City,
Yardley, PA, USA

EMEA – Europe, Middle East & Africa

● Si Invest SA,
Brussels, BELGIUM

● ● Sauermann Industrie S.A.S.,
Chevry-Cossigny,
Montpon, FRANCE

● Sauermann UK Ltd.,
Blackpool, UNITED KINGDOM

● Sauermann Iberica,
Barcelona, SPAIN

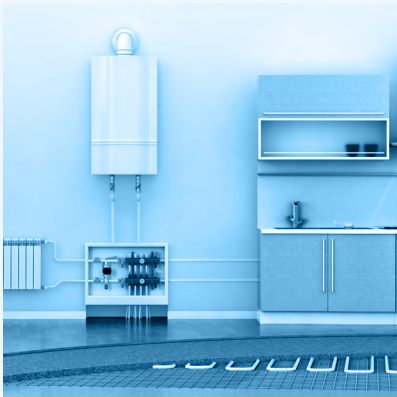
● Sauermann Italia S.r.l.,
Bologna, ITALY

Asia Pacific

● Sauermann China,
Shanghai, CHINA

● Sauermann Australasia,
Sydney, AUSTRALIA

SUMMARY



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HEATING AND COMBUSTION

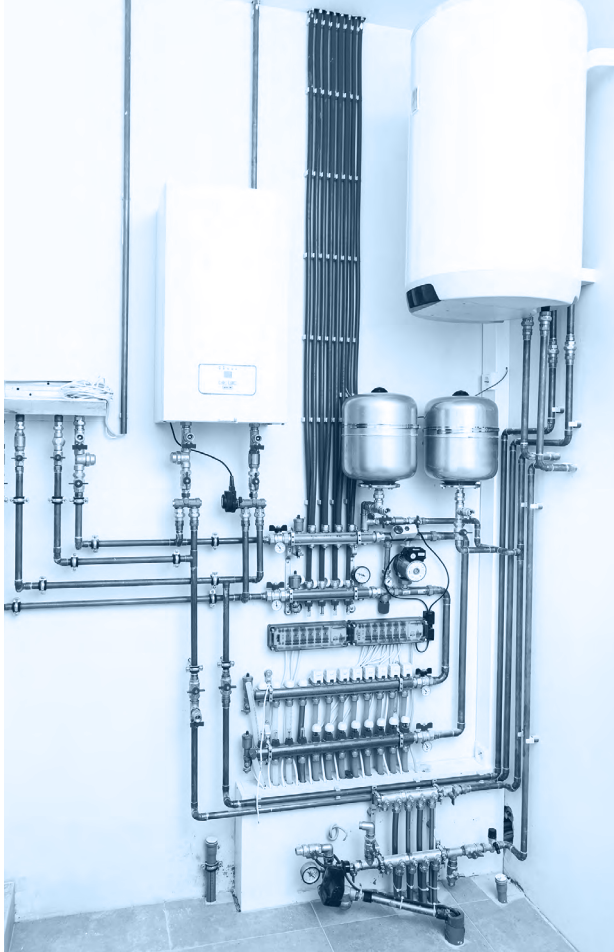
Heating systems consist of a boiler, a furnace, or a heat pump to heat water, steam or air in a central location, such as a furnace room in a home or a mechanical room in a large building. Those systems also include the heat distribution part, whether it is a water circuit or a forced air system with fans & blowers.

In order to ensure that such a heating system is working safely and efficiently various functional checks, adjustments and measurements should be performed on heat pumps, gas-fired systems, oil and solid fuel systems, both during commissioning and at regular intervals.

These include flue gas analysis, differential pressure measurement, leak detection and tightness testing, flow temperature measurement, as well as ambient CO measurement.

Also note that combustion analysis is important for engines and other combustion processes whose purpose is not to generate heat. It is required to measure their gas emissions for regulatory compliance reasons and efficiency assessments.





Flue Gas Analysis

Combustion-based equipment, such as boilers, furnaces or internal combustion engines need to be tightly controlled with regards to environmental and energy regulations. They also have to ensure a perfectly optimized and efficient combustion process over time in order to consume less fuel.

Flue gas analysis with professional combustion analyzers from Sauermann helps make combustion processes more efficient and reduces emissions by optimizing the combustion reaction and processes.

Flue gases released during combustion contain O_2 , CO_2 , CO , NO_x (oxides of nitrogen), other pollutant gases and soot particles among others. These pollute the environment, have a negative effect on the climate and create numerous health risks for human beings.



Perform an exhaustive combustion analysis of a residential or commercial boiler or furnace with an efficiency test, CO and NO_x emissions measurements, calculation of CO₂, CO ambient monitoring, and stack draft (pressure) and temperature measurements.

Solution

Si-CA 130 Combustion analyzer

Servicing Heat Pumps

Heat pumps generate heat without any combustion processes and offer greater energy efficiency than even the best condensing boilers. The heating process is based on a refrigerant gas, transporting heat through a phase change cycle. However, most refrigerant gases are not harmless for the environment and usually have a significant cost, so these heat pump systems need to be properly commissioned and maintained.

In order to reliably provide sustainable heat and optimize the heating curve, the heat pumps must be thoroughly checked using suitable measurement technology at regular service and maintenance intervals.

An annual service is also recommended for all heat pumps. This ensures efficient operations, detects any refrigerant gas leaks, and optimizes efficiency to reduce energy costs.



This tool allows the user to commission a heat pump, check the refrigerant circuit tightness or fill gas and check differential pressure and subcooling / superheating temperatures simultaneously.

Solution

Si-RM450 4-way manifold

Differential Pressure Check

When you carry out servicing work on residential heating systems, the differential pressure measurement is part of the standard repertoire. This includes:

- Measurement of gas pressure and static pressure of a boiler
- Draft pressure: pressure measurement in the combustion chamber or exhaust stack/flue to ensure the combustion gases safely and properly exit the combustion equipment

The measurement of gas flow and static gas pressure in the system is especially important, because the burner can only operate well at a specified flow pressure range. Outside this range, explosive flame formation can occur. The consequences are malfunctions or even breakdown of the heating system. For this reason, the acquisition of a reliable, easy-to-operate differential pressure measuring instrument is essential.



Measure pressure at the gas inlet valve, boiler or furnace draft, and differential pressure across a filter or any other part of the combustion system to verify proper, safe, and efficient operations.

Solution

MP 115 Manometer

Temperature Check

In order for a heating system to work efficiently and distribute heat energy as uniformly as possible, temperature measurement is crucial. At Sauermann you will find temperature measuring instruments for these important heating measurements, directly performed on heating equipment or in a room's ambient air.



Measuring flow and return water temperatures of a heat circuit distribution system.

Solution

Kiray 100 Infrared thermometer

Tightness Testing and Gas Leak Detection

Both heat pumps and combustion-based heating systems can severely suffer from refrigerant and combustible gas leaks. Most refrigerants are powerful greenhouse gases that can seriously harm the environment and sometimes can be explosive (such as R32). Combustible gases leaks can raise safety concerns, be explosion hazards, and waste valuable fuel. Thus, it is utterly important to be able to easily locate any leak in order to quickly repair or replace the impacted portion of the gas circuit.

Searching for and finding gas leaks can be very difficult. Fast professional leakage sniffers are essential to locate the slightest leaks precisely and quickly in a gas circuit.



Detect most refrigerant gas leaks throughout a heat pump gas loop.

Solution

Si-RD3 Refrigerant gas leak detector



Detect any combustible gas leaks, such as natural gas, methane, propane, isobutane, and LPG, throughout a boiler's gas piping system.

Solution




Si-CD3 Combustible gas leak detector






Full Product List






Our most common articles for heating and combustion applications






Combustion Analyzers

PRODUCT	ITEM	REF.	MEASURED PARAMETERS						DESCRIPTION
			Pa	°C/°F	%RH	m/s	m³/h	ppm	
	Si-CA 130 KIT 2AS	27507	✓	✓	-	✓	-	✓	Combustion analyzer Si-CA 130 Kit 2AS with touch screen, • 2 electrochemical gas sensors (O ₂ , CO) upgradeable to a 3 rd sensor (NO or NO low range), automatic pump cut-off protection for sensors, • 180 mm sampling probe with 2 m hose and water trap with filter, magnetic support, protective rubber holster, vinyl carrying case, power charger, USB cable, quick start guide and calibration certificate • Wireless communication for mobile application and remote printer (optional).
	Si-CA 130 KIT 2AS CO-H2	27878	✓	✓	-	✓	-	✓	Combustion analyzer Si-CA 130 Kit 2AS • With touch screen, 2 electrochemical gas sensors (O ₂ , CO-H ₂) upgradeable to a 3 rd sensor (NO or NO low range), automatic pump cut-off protection for sensors. • 180 mm sampling probe with 2 m hose and water trap with filter, magnetic support, protective rubber holster, vinyl carrying case, power charger, USB cable, quick start guide and calibration certificate. • Wireless communication for mobile application and remote printer (optional).
	Si-CA 030 KIT 2AS	27496	✓	✓	-	-	-	✓	Combustion analyzer Si-CA 030 Kit 2AS • With 2 electrochemical gas sensors (O ₂ , CO) upgradeable to a 3 rd sensor (NO), automatic pump cut-off protection for sensors, 180 mm sampling probe with 2 m hose and water trap with filter, magnetic support, protective rubber holster, power charger, USB cable, quick start guide and calibration certificate • Wireless communication for mobile application and remote printer (optional) • Packaged in vinyl carrying case.

Manifolds

	Si-RM13	25558	✓	✓	-	-	-	-	<p>Si-RM13 Wireless manifold</p> <ul style="list-style-type: none"> • Set made of two pressure probes and two temperature probes. Pressure probe in ABS-PC with elastomer overmoulding. Connection to facilities: 1/4" FFL with depressor. Fluid load and evacuation: 1/4" MFL with Shrader valve. Relative pressure range from -1 to 60 bar. Wireless low energy communication. NTC temperature clamps, range from -40 °C to +150 °C. • Cable of 2 m with reinforced Jack connector. Blind manifold with hanging hook and three 'Y' 1/4" MFL connections including one with Shrader valve. Probes supplied in a robust transport case with red and blue identification rings, AAA batteries, adjusting certificate and a set of three charging lines with flow ball valves. Measurements reading on Si-Manifold application.
	Si-RM3	25555	✓	✓	-	-	-	-	<p>Si-RM3 Wireless manifold</p> <ul style="list-style-type: none"> • Set made of two pressure probes and two temperature probes. Pressure probe in ABS-PC with elastomer overmoulding. Connection to facilities: 1/4" FFL with depressor. • Fluid load and evacuation: 1/4" MFL with Shrader® valve. Relative pressure range from -1 to 60 bar. • Wireless connection low energy communication. NTC temperature clamps, range from -40 °C to +150 °C. Cable of 2 m with reinforced jack connector. Probes supplied in soft case with red and blue identification rings, six AAA batteries and adjustment certificate. Measurements reading on free Si-Manifold application.
	Si-RV3	25554	✓	-	-	-	-	-	<p>Si-RV3 Wireless probe for vacuum measurement</p> <ul style="list-style-type: none"> • Housing in ABS-PC with elastomer overmoulding. 1/4" FFL connector with depressor for connection to facilities. 1/4" MFL connector with Shrader® valve for charge and vacuum. • Range from 25 000 to 5 microns. Wireless connection low energy communication. • Supplied in blister pack, with three AAA batteries and adjustment certificate. • Measurements reading on free Si-Manifold application.

PRODUCT	ITEM	REF.	MEASURED PARAMETERS							DESCRIPTION
			Pa	°C/°F	%RH	m/s	m³/h	ppm		
	Si-RM350 MANIFOLD KIT 1	28146	✓	✓	-	-	-	-		<p>Si-RM350 : Digital refrigerant manifold kit 1.</p> <ul style="list-style-type: none"> Includes 1x Si-RM350 2-way manifold (3 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT2 wired temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor and 2 m (6 ft) cable, measuring range from -50 to 120 °C (-58 to 248 °F). A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauer mann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.
	Si-RM350 MANIFOLD KIT 2	28159	✓	✓	-	-	-	-		<p>Si-RM350 : Digital refrigerant manifold kit 2.</p> <ul style="list-style-type: none"> Includes 1x Si-RM350 2-way manifold (3 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT2 wired temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor and 2m (6 ft) cable, measuring range from -50 to 120 °C (-58 to 248 °F), 1x set of 3 refrigerant charging hoses, 1/4" SAE, length 1 m (39"). A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauer mann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.
	Si-RM350 MANIFOLD KIT 3	28147	✓	✓	-	-	-	-		<p>Si-RM350 : Digital refrigerant manifold kit 3.</p> <ul style="list-style-type: none"> Includes 1x Si-RM350 2-way manifold (3 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT7 wireless temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor, measuring range from -20 to 85 °C (-4 to 185 °F). A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauer mann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.
	Si-RM350 MANIFOLD KIT 4	28160	✓	✓	-	-	-	-		<p>Si-RM350 : Digital refrigerant manifold kit 4.</p> <ul style="list-style-type: none"> Includes 1x Si-RM350 2-way manifold (3 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT7 wireless temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor, measuring range from -20 to 85 °C (-4 to 185 °F), 1x set of 3 refrigerant charging hoses, 1/4" SAE, length 1 m (39"). A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauer mann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.
	Si-RM350 MANIFOLD KIT 5	28161	✓	✓	-	-	-	-		<p>Si-RM350 : Digital refrigerant manifold kit 5.</p> <ul style="list-style-type: none"> Includes 1x Si-RM350 2-way manifold (3 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT2 wired temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor and 2 m (6 ft) cable, measuring range from -50 to 120 °C (-58 to 248 °F), 1x Si-RV4 wireless vacuum probe, measurement range: 50 to 25 000 microns. A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauer mann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.

PRODUCT	ITEM	REF.	MEASURED PARAMETERS							DESCRIPTION
			Pa	°C/°F	%RH	m/s	m³/h	ppm		
	Si-RM450 MANIFOLD KIT 1	28162	✓	✓	-	-	-	-	<p>Si-RM450 : Digital refrigerant manifold kit 1.</p> <ul style="list-style-type: none">Includes 1x Si-RM450 4-way manifold (4 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT2 wired temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor and 2 m (6 ft) cable, measuring range from -50 to 120 °C (-58 to 248 °F).A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauermann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.	
	Si-RM450 MANIFOLD KIT 2	28163	✓	✓	-	-	-	-	<p>Si-RM450 : Digital refrigerant manifold kit 2.</p> <ul style="list-style-type: none">Includes 1x Si-RM450 4-way manifold (4 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT2 wired temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor and 2 m (6 ft) cable, measuring range from -50 to 120 °C (-58 to 248°F), 1x set of 3 refrigerant charging hoses, 1/4" SAE, length 1 m (39"), 1x vaccum hose 3/8" SAE, length 1.5 m (59").A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauermann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.	
	Si-RM450 MANIFOLD KIT 3	28164	✓	✓	-	-	-	-	<p>Si-RM450 : Digital refrigerant manifold kit 3.</p> <ul style="list-style-type: none">Includes 1x Si-RM450 4-way manifold (4 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT7 wireless temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor, measuring range from -20 to 85 °C (-4 to 185 °F).A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauermann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.	
	Si-RM450 MANIFOLD KIT 4	28165	✓	✓	-	-	-	-	<p>Si-RM450 : Digital refrigerant manifold kit 4.</p> <ul style="list-style-type: none">Includes 1x Si-RM450 4-way manifold (4 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT7 wireless temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor, measuring range from -20 to 85°C (-4 to 185°F), 1x set of 3 refrigerant charging hoses, 1/4" SAE, length 1 m (39"), 1x vaccum hose 3/8" SAE, length 1.5m (59").A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauermann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.	
	Si-RM450 MANIFOLD KIT 5	28148	✓	✓	-	-	-	-	<p>Si-RM450 : Digital refrigerant manifold kit 5.</p> <ul style="list-style-type: none">Includes 1x Si-RM450 4-way manifold (4 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT7 wireless temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor, measuring range from -20 to 85 °C (-4 to 185 °F), 1x Si-RV4 wireless vacuum probe, measurement range: 50 to 25 000 microns.A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauermann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAA) and adjusting certificate.	

PRODUCT	ITEM	REF.	MEASURED PARAMETERS							DESCRIPTION
			Pa	°C/°F	%RH	m/s	m³/h	ppm		
	Si-RM450 MANIFOLD KIT 6	28149	✓	✓	-	-	-	-	<p>Si-RM450 : Digital refrigerant manifold kit 6.</p> <ul style="list-style-type: none">Includes 1x Si-RM450 4-way manifold (4 ports) measuring range from -1 to 60 bar (-14 to 870 psi), 2x Si-RT7 wireless temperature clamps for 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor, measuring range from -20 to 85 °C (-4 to 185 °F), 1x Si-RV4 wireless vacuum probe, measurement range: 50 to 25 000 microns, 1x set of 3 refrigerant charging hoses, 1/4" SAE, length 1 m (39"), 1x vacuum hose, 3/8" SAE, length 1.5 m (59").A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. Anti-reflective glass display. Internal memory data-logging up to 600 000 points and 9 days. Rear hook, USB-C wired power supply and IP54 dust & rainproof body for extended outdoor use. Wireless connection to Sauer mann mobile App, Si-RS1 refrigerant scale and wireless probes. Supplied in hard plastic case with batteries (4xAAA) and adjusting certificate.	
	Si-RT2	28140	-	✓	-	-	-	-	<p>Si-RT2 : Wired temperature clamp</p> <ul style="list-style-type: none">For 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor and 2 m (6 ft) cable. Measurement range: -50 to 120 °C (-58 to 248 °F). IP54 dust & rain proof probe. Supplied in cardboard packaging.	
	Si-RT5	28141	-	✓	-	-	-	-	<p>Si-RT5 : Wired temperature velcro contact probe</p> <ul style="list-style-type: none">For large diameter pipes up to 100 mm (max. 3.9 ") with NTC sensor and 2 m (6 ft) cable. Measurement range: -20 to 85 °C (-4 to 185 °F). IP54 dust & rain proof probe.. Supplied in cardboard packaging.	
	Si-RT7	28142	-	✓	-	-	-	-	<p>Si-RT7 : Wireless temperature clamp</p> <ul style="list-style-type: none">For 6 to 42 mm (0.2 to 1.7") diameter pipes with NTC sensor. Measurement range: -20 to 85 °C (-4 to 185 °F). IP54 dust & rain proof probe. Wireless auto connection for real time readings on Si-RM350/450 manifolds and Sauer mann mobile App. Supplied in cardboard packaging with batteries (3xAAA).	
	Si-RV4	28143	✓	-	-	-	-	-	<p>Si-RV4 : Wireless vacuum probe.</p> <ul style="list-style-type: none">Measurement range: 50 to 25 000 microns. High accuracy Pirani® sensor. A1 / A2L / A2 / A3 compatible. IP54 dust & rain proof probe. Wireless auto connection for real time readings on Si-RM350/450 manifolds and Sauer mann mobile App. Supplied in cardboard packaging with batteries (3xAAA) and adjusting certificate.	
	Si-RP4	28144	✓	-	-	-	-	-	<p>Si-RP4 : Wireless pressure probe.</p> <ul style="list-style-type: none">Measurement range: -1 to 60 bar (-14 to 870 psi). A1 / A2L / A2 / A3 compatible, with over 130 registered refrigerants. IP54 dust & rain proof probe. Wireless auto connection for real time readings on Si-RM350/450 manifolds and Sauer mann mobile App. Supplied in cardboard packaging with batteries (3xAAA) and adjusting certificate.	
	Si-TH4	28145	-	✓	-	-	-	-	<p>Si-TH4 : Wireless temperature-hygrometer (psychrometer) probe.</p> <ul style="list-style-type: none">Measurement range: -20 to 60 °C (-4 to 140 °F) and 0 to 100 %RH. Fast and accurate dry bulb and wet bulb temperatures. Outdoor, indoor and in-ducts measurements. Flexible probe with sliding magnet for easy positioning. Wireless auto connection for real time readings on Si-RM350/450 manifolds and Sauer mann mobile App. Supplied in cardboard packaging with batteries (3xAAA) and adjusting certificate.	
	MP 115	24617	✓	-	-	-	-	-	<p>MP115 portable micro-manometer with integrated pressure sensor (0 to +/- 500 mbar), 2-line display</p> <ul style="list-style-type: none">Functions: Pressure, Hold, Min, Max, backlight, change of unit, configurable automatic switch-off, manual auto-zeroSupplied with secured pressure connections, 2 x 1 m of clear tube 4 x 6, stainless steel tube diameter 6 mm length 100 mmSupplied with soft case and calibration certificate.	

	PRODUCT	ITEM	REF.	MEASURED PARAMETERS						DESCRIPTION
				Pa	°C/°F	%RH	m/s	m³/h	ppm	
Temperature		TK 61	25513	-	✓	-	-	-	-	K/J/T/S thermocouple, 1-channel portable thermometer (-200 to +1760 °C) type TK 61 , 2-line display. • Functions: Hold, Min, Max, backlit display, alarm, change of unit, configurable auto switch-off and selection of thermocouple type. Supplied with batteries and adjustment certificate.
		TK 62	25514	-	✓	-	-	-	-	K/J/T/S thermocouple, 2-channel portable thermometer (-200 to +1760 °C) type TK 62 , 2-line display. • Functions: Hold, Min Max, Delta T, backlit display, alarm, change of unit, configurable auto switch-off and selection of thermocouple type • Supplied with batteries and adjustment certificate.
		KIRAY 100	21664	-	✓	-	-	-	-	• KIRAY 100 infrared thermometer, double laser sighting. • Measuring range: -50 to +800 °C. D:S = 20:1. Backlit display, audible alarm (high and low), adjustable emissivity • Supplied with transport cover and user manual.
Gas leaks		Si-CD3	27868	-	-	-	-	-	✓	Combustible gas leak detector Si-CD3 . • Detects gases such as methane (CH ₄), propane, isobutane, hydrogen (H ₂), LPG • Flexible probe length 300 mm. Range 0-10,000 ppm (hydrocarbon and CH ₄) and 0-1800 ppm (LPG) • Graphic backlit display, configurable visual and audible alarms, change of unit, Hold, Min-Max, configurable backlight and automatic switch-off.
		Si-RD3	27867	-	-	-	-	-	✓	Refrigerant gas leak detector Si-RD3 . • Detects the most common refrigerants. • Gases detected: all HFCF and HFC refrigerants, HFO-1234yf, HFO-1234ze, R290, R600a. Detection of mixtures: 5% hydrogen - 95% nitrogen, Nidron 5 / Trace Gas, etc. • Flexible probe 300 mm. Instrument meeting EN14624 norm. Manual and automatic auto-zero, draft pump, heat-system sensor, visual and audible alarm, battery-level indicator.
Accessories		SKV 150	17156	-	✓	-	-	-	-	SKV150 Class 1 K thermocouple contact probe with hook and loop fastener (-20 to +90 °C). • For duct Ø 100 mm (maximum), with 1.50 m cable and compensated miniature male connector.
		SCLK 150	24648	-	✓	-	-	-	-	SCLK150 K thermocouple lamella contact probe. • Class 1 (-50 to +250 °C). Stainless steel probe Ø 6 mm, length 150 mm with handle, retractable cable and miniature male compensated connector.
		SAK-2	24818	-	✓	-	-	-	-	SAK-2 K thermocouple wire probe, class 1, (-40 to +250 °C). • Visible welding, isolated PTFE cable length 2 m, output on miniature male compensated connector. (Tr 99%: 3 sec)
		SAK 150	24646	-	✓	-	-	-	-	SAK-150 K thermocouple ambient probe. • Class 1 (-40 to +250 °C) • Stainless steel perforated probe Ø 4.5 mm, length 150 mm with handle, retractable cable and miniature male compensated connector. (Tr 99%: 50 sec).
		PRINTER Si-CAX30	27546	-	-	-	-	-	-	• Remote thermal printer. With wireless connection for Si-CA 030/130/230.
		DP HOSE KIT Si-CAX30	27538	✓	-	-	-	-	-	• Differential pressure measurement hose kit comprised of two hoses of 1 m (40") each with connectors, for differential pressure measurements with Si-CA 030/130/230 and also for stack velocity measurements using a S type Pitot tube (optional) with Si-CA 130.
		ST 110	24635	-	-	-	-	-	-	• ST110 soft case with handle. For Class 60 and 110 instruments (supplied with all Class 110 / can be ordered separately).



Customized Products

If you cannot find the product (instrument, probe, accessory) that suites your specific needs in this list, we can also deliver a large range of products that are available with longer delivery lead times.

OUR EXPERTISE

ACCREDITED MEASUREMENT LABORATORIES, IN-HOUSE RESEARCH AND DEVELOPMENT

Sauermann products and services are backed by cutting-edge facilities and expertise: a team of over 20 experts working at multiple testing and calibration laboratories worldwide, and production lines in France, the United States and China.

Our in-house research and development program – spearheaded by a young, forward-looking group of 20 engineers and 10 technicians - has three aims: to push the boundaries of innovation in ergonomic design, digital technology and connected objects, to patent our technologies, and to consistently set new standards for electronic and mechanical performance in our products.



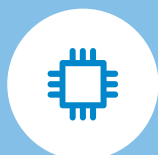
Over 800 m² of laboratory space

Our experts provide maintenance, adjustment and calibration services for our measurement instruments.



Customer service staff trained by our experts

Our team is here to advise and quote you for the service you need.



After-sales service

Our technicians maintain and repair your devices right where they're made.



Over 20 patents

Including our oscillating piston pump technology and the foldable frame system found on our DBM 620 air flow meter.



Our measurement expertise covers a wide range of fields:

Pressure	Air velocity
Temperature	Air flow
Humidity	Gas analysis
Weight	Light measurement
Radiometry	Electrical current
Tachometry	Acoustics

**Sauermann Industrie,
Laboratories, located
in Montpon (FR),
accredited to standard
NF EN ISO/IEC 17025**

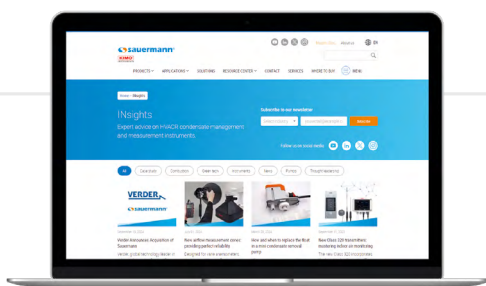


TEMPERATURE



HYGROMETRY

Professional solutions for condensate management and indoor air quality measurement



INsights

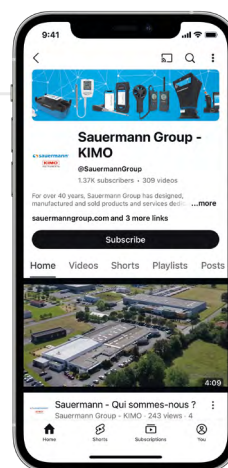
Case studies, useful information and practical advice for HVACR and indoor air quality professionals.

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Sauermann on YouTube

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