

MANIFOLDS

Refrigerant handling, maintenance and commissioning

Heat pumps, air conditioning,
refrigeration and reversible systems



Easy operation and full diagnostics at a glance

The smart assistant that makes everyone an expert.

These manifolds can be used to commission and service all types of refrigerant-based installations: heat pumps, air conditioning, refrigeration and reversible systems, from domestic systems to complex industrial machines.

Very easy to operate, this equipment features the latest technologies for fast, comprehensive system diagnostics. Its smart digital assistant guides the operator in every situation to help him achieve his objectives in the best possible way.

Screen providing **perfect visibility** in daylight.

Strengthened housing,
natural grip.





Rugged carrying case
for manifold and probes.



Operate any system, from domestic to industrial, with **over 130 A1, A2L and A3 refrigerants** (and more with updates).

Full digital assistance:

troubleshooting, remote control and visualization via smartphone, report generation, customer database, etc.

Stable, easy wireless probe
connection up to 100 meters
range.

Parrot shape for the perfect fit
on pipes from 6 to 42 mm.
Ultra-reactive CTN temperature sensor.

Digital refrigerant manifolds

2-way manifold

Si-RM350 (ref. 28138)



4-way manifold

Si-RM450 (ref. 28139)

Power supply	4 × LR6 or AA 1.5 V batteries. Alternative power supply: USB-C
Battery life	300 hours *
Memory	Up to 9 days of recording
Display	Graphic screen; 240 x 128 px

* At 20°C without backlight and wireless communication



**A1 / A2L / A3
refrigerants compatible**

**Most versatile and futureproof
manifold in its range**

- Domestic to industrial A/C, heat pumps, refrigeration & reversible systems
- Wired and wireless probes (100 m range)
- 130+ refrigerants supported. Auto updates to industry evolutions



**High-speed NTC temperature
sensors**

**Lightning-fast response times
to speed up operations**

- "Parrot" clamp shape optimized for 6 to 42 mm pipes
- Long-lasting high accuracy
- Real time results on manifold and mobile app



**Durable anti-reflective
glass screen**

**Crystal-clear
easy-to-read display**

- Perfect readability in daylight sun
- Backlit for indoor use
- Industry leading anti-glare design



**User-friendly troubleshooting
with diagnostics**

**Quick and easy to operate
in all situations**

- 8 integrated measurement programs
- New "Easy Mode" with single pressure port connected
- Efficiency calculations: COP and EER ratings



**Safe and rugged
for long data logging**

**Maximum reliability
for deep diagnostics**

- Internal memory data-logging up to 9 days with 300h battery life
- Anti-theft padlock slot, rear hook and USB-C wired power supply
- IP54 dust & rain proof body



**New smart assistant app:
Sauermann Pilot**

**Digital tech leveraged
to help technicians**

- Real time control, readings display and recordings
- Create, sign and send reports with pictures
- Internal detailed customer database management

Si-RM350

Si-RM450

Pressure valves

3 valves

4 valves

Measuring range

From -1 to 60 bar (-14 to 870 psi)

Pressure sensing accuracy

±0.50% of full scale

Resolution

0.01 bar / 0.1 psi / 1 kPa / 0.001 MPa

Probes and accessories



Wired temperature clamp

Si-RT2 (ref. 28140)

- Innovative "Parrot" shape to handle 6 to 42 mm pipes
- High-speed NTC temperature sensor with high accuracy
- Wide measurement range: -50 to 120°C

Wireless temperature clamp

Si-RT7 (ref. 28142)

- Innovative "Parrot" shape to handle 6 to 42 mm pipes
- High-speed NTC temperature sensor with high accuracy
- Quick & Strong wireless auto connection (100 m range)
- Real time readings on manifold and mobile app
- Measurement range: -20 to 85°C
- IP54 dust & rain proof probe



Wired temperature probe for large diameter pipe

Si-RT5 (ref. 28141)

- Easy grip for large pipes up to 100 mm diameter
- High-speed NTC temperature sensor with high accuracy
- Measurement range: -20 to 85°C



Wireless temp-hygrometer (psychrometer)

Si-TH4 (ref. 28145)

- Fast and accurate Dry Bulb and Wet Bulb temperatures
- Outdoor, indoor and in-ducts measurements
- Flexible probe with sliding magnet for easy positioning
- Quick & Strong wireless auto connection (100 m range)
- Real time readings on manifold and mobile app



Wireless vacuum probe

Si-RV4 (ref. 28143)



- High accuracy Pirani® sensor, 50 microns deep vacuum
- A1, A2L and A3 refrigerants compatible
- Quick & Strong wireless auto connection (100 m range)
- Real time readings on manifold and mobile app
- IP54 dust & rain proof probe



Wireless pressure probe

Si-RP4 (ref. 28144)

- A1, A2L and A3 refrigerants compatible
- Light and curved design for easy plug-in
- Quick & Strong wireless auto connection (100 m range)
- Real time readings through direct connection to mobile app
- IP54 dust & rain proof probe



Digital refrigerant scale

Si-RS1 (ref. 28153)

- Extra Large Back-lit LCD Display
- 3 Display Modes (kg, lb, oz)
- 243 lb (110 kg) Capacity
- Strong Aluminum Base
- Rugged, Non-Slip Platform
- Accuracy $\pm 0.05\%$ of Reading



Two stage Vacuum pump

Si-RVP1 (ref. 110V : 28155 - ref. 220V : 28154)

Si-RVP2 (ref. 28157) **Si-RVP3** (ref. 28156)

- Motor: 1/3 HP (**Si-RVP1**) and 1/2 HP (**Si-RVP2** and **Si-RVP3**)
- Free air displacement (50/60 Hz) : 85/70 lit/min (**Si-RVP1**) and 170/142 lit/min (**Si-RVP2** and **Si-RVP3**)
- Spark free, A2L & A3 refrigerant (Si-RVP3 - Europe only)
- Refined cartridge machining process creates an improved surface finish extending the longevity of the pump life
- Expanded internal oil path creates less friction and ultimately less heat
- Upgraded seals insure maximum vacuum

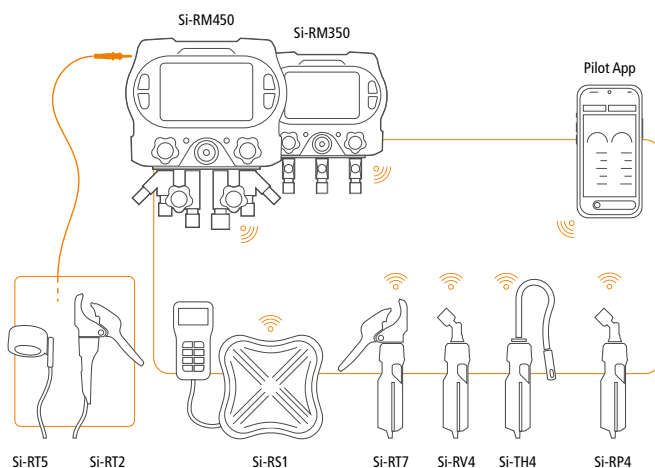


Mobile app

Sauermann Pilot

The Si-RM350 and Si-RM450 manifolds, their probes and accessories can be interconnected independently. Additional functionalities can also be accessed via the new Sauermann Pilot mobile application.

Available on iOS and Android, this app provides invaluable assistance with a precise purpose: **to simplify and speed up the work of HVACR professionals.**



With the ability to connect to multiple devices simultaneously, the free **Sauermann Pilot** app supports the latest Sauermann and Kimo instruments wirelessly on Apple and Android smartphones and tablets.



Download the app
Sauermann Pilot



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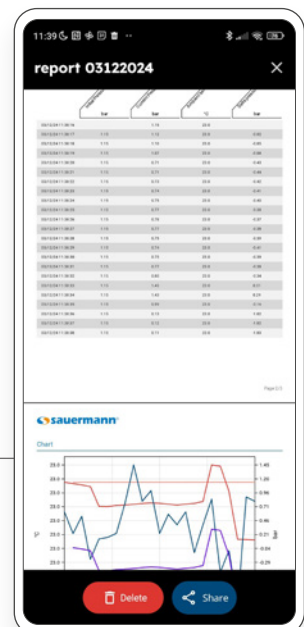
Remote visualization and control

Manage the interconnection of probes, vacuum pumps, scale and manifold: ultra-accurate refrigerant handling, measurements and complete diagnostics at a glance!



Administrative tasks just a click away

Automated paperwork! Record your measurement campaigns and automatically integrate the results into service reports with digital signatures and photos, all adapted to current and future regulatory requirements.



Easy customer management

Save a complete customer database: contact information, detailed installation type, archived jobs and reports... This database is stored locally and protected so that only the user can access it.

Available kits and references



Si-RM350 (x1)



Si-RT2 (x2)



Si-RT7 (x2)



Si-RV4 (x1)



Hoses (x3)

Kit 1: 28146	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
Kit 2: 28159	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
Kit 3: 28147	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
Kit 4: 28160	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
Kit 5: 28161	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>



Si-RM450 (x1)



Si-RT2 (x2)




















Si-RT7 (x2)



Si-RV4 (x1)



Hoses (x4)

Kit 1: 28162					
Kit 2: 28163					
Kit 3: 28164					
Kit 4: 28165					
Kit 5: 28148					
Kit 6: 28149					

Notes

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).



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 GmbH,
Leingarten, GERMANY

● Sauermann UK Ltd.,
Blackpool, UNITED KINGDOM

● Sauermann Iberica,
Barcelona, SPAIN

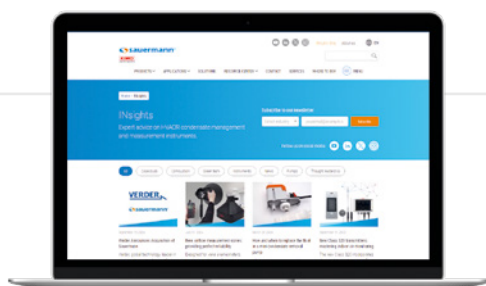
● Sauermann Italia S.r.l.,
Bologna, ITALY

Asia Pacific

● Sauermann China,
Shanghai, CHINA

● Sauermann Australasia,
Sydney, AUSTRALIA

Professional solutions for condensate management and indoor air quality measurement



INsights

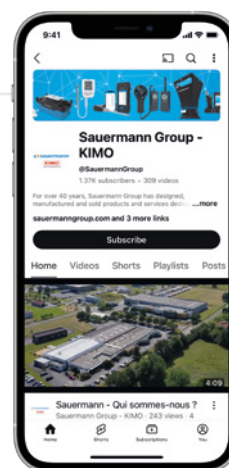
Case studies, useful information and practical advice for HVACR and indoor air quality professionals.

sauermanngroup.com/en-INT/insights

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