

Works with  
measureQuick<sup>®</sup>



## 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.

## Daylight-Friendly Display

Clear, bright screen for perfect visibility even in direct sunlight.

## Durable Housing with Ergonomic Grip

Built tough with a comfortable, natural grip for easy handling.





### Rugged Carrying Case

Keeps your manifold and probes protected and organized.



### Full Digital Support

Includes troubleshooting, remote control, and visualization via smartphone, plus report generation and customer database management.

### Versatile Refrigerant Compatibility

Works with 130+ refrigerants, including A1, A2L, A3, and more (with updates).

### Stable Wireless Connection

Reliable probe connection with a 328-foot range.

### Beak-Shaped Clamp

Ensures a secure fit on pipes from 1/4" to 1.65", paired with a highly responsive CTN temperature sensor.

# Digital refrigerant manifolds



## 2-way manifold

**Si-RM350** (ref. 28138)



## 4-way manifold

**Si-RM450** (ref. 28139)

<b>Power supply</b>	4 × LR6 or AA 1.5 V batteries. Alternative power supply: USB-C
<b>Battery life</b>	300 hours *
<b>Memory</b>	Up to 3 days of recording
<b>Display</b>	Graphic screen: 240 x 128 px

\* At 68°F (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 (328' 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 1/4" to 1.65" pipes
- Long-lasting high accuracy
- Real time results on manifold & 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 3 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 -14 to 870 psi (-1 to 60 bar)	
Pressure sensing accuracy	±0.50% of full scale	
Resolution	0.1 psi / 0.01 bar / 1 kPa / 0.001 MPa	

# Probes and accessories



## Wired temperature clamp

**Si-RT2** (ref. 28140)

- Innovative "Parrot" shape to handle 1/4" to 1.65" pipes
- High-speed NTC temperature sensor with high accuracy
- Wide measurement range: -58 to 248°F (-50 to 120°C)

## Wireless temperature clamp

**Si-RT7** (ref. 28142)

- Innovative "Parrot" shape to handle 1/4" to 1.65" pipes
- High-speed NTC temperature sensor with high accuracy
- Quick & Strong wireless auto connection (328' range)
- Real time readings on manifold and mobile app
- Measurement range: -4 to 185°F (-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 7.87" diameter
- High-speed NTC temperature sensor with high accuracy
- Measurement range: -4 to 185°F (-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 (328' 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 (328' 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 (328' 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 (lb, oz, kg)
- 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

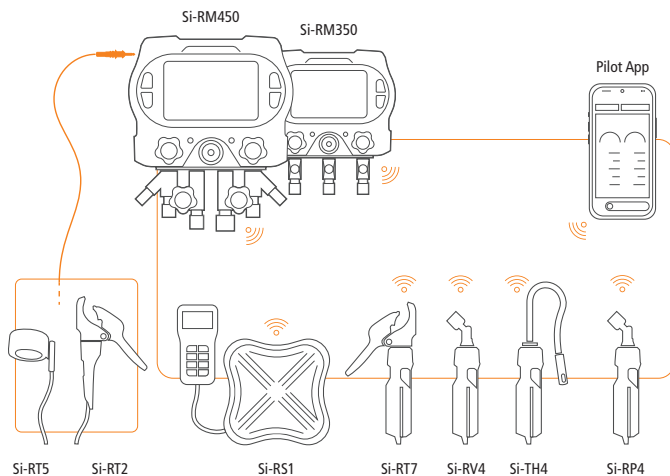


# Mobile app

## Sauermann Pilot

The **Si-RM350** and **Si-RM450** manifolds, along with their probes and accessories, can be independently connected. Access additional features through the new **Sauermann Pilot** mobile app.

Available for **iOS** and **Android**, the app is designed to help HVACR professionals streamline their work



### Wireless Multi-Device Connectivity

Supports the latest Sauermann and Kimo instruments, connecting wirelessly to Apple and Android devices.



Download the app  
**Sauermann Pilot**



App Store is a service mark of Apple Inc., registered in the U.S. and other countries.  
Google Play and the Google Play logo are trademarks of Google LLC.



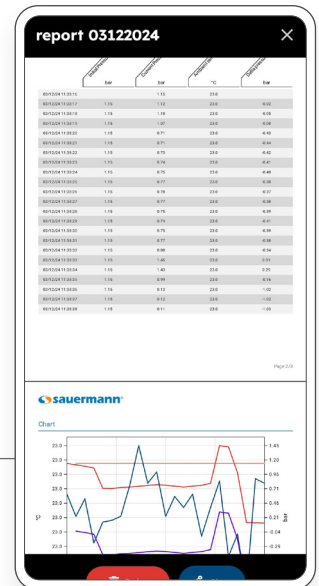
### Remote Control and Visualization

Manage probes, vacuum pumps, scales, and manifolds for accurate refrigerant handling and diagnostics.



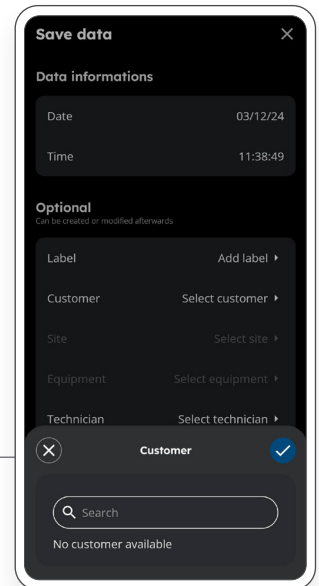
### Automated Report Generation

Record measurements and integrate results into service reports with digital signatures, photos, and regulatory compliance.



### Customer Management

Store and secure customer data, including contact details, job history, and reports for easy access and management.



# Available kits and references



Si-RM350 (x1)



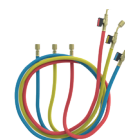
Si-RT2 (x2)



Si-RT7 (x2)



Si-RV4 (x1)



Hoses (x3)

Kit 1: 28146	●	●			
Kit 2: 28159	●	●			●
Kit 3: 28147	●		●		
Kit 4: 28160	●		●		●
Kit 5: 28161	●	●		●	



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, Sauer mann 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, Sauer mann group operates two main brands:

- The **Sauer mann** 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:** Sauer mann 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, Sauer mann 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. Sauer mann pumps are designed to look good, while our patented piston technology delivers whisper-quiet operation and unrivalled reliability.



## North America

● ● Sauer mann N.A. Corp.  
Hauppauge, NY, USA,  
Yardley, PA, USA

## EMEA – Europe, Middle East & Africa

● Si Invest SA  
Brussels, BELGIUM

● ● Sauer mann Industrie S.A.S  
Chevy-Cossigny,  
Montpon, FRANCE

● Sauer mann GmbH,  
Leingarten, GERMANY

● Sauer mann UK Ltd.  
Blackpool, UNITED KINGDOM

● Sauer mann Iberica  
Barcelona, SPAIN

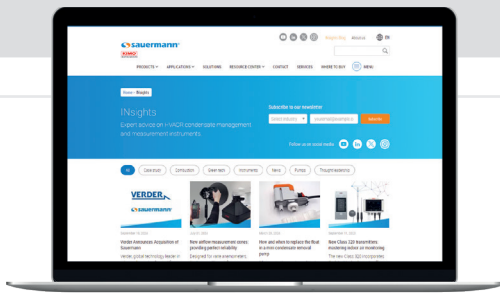
● Sauer mann Italia S.r.l  
Bologna, ITALY

## Asia Pacific

● ● Sauer mann China  
Shanghai (Jiading & Pudong),  
CHINA

● Sauer mann 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.



## Sauermann on YouTube

Head to our YouTube channel for tutorials, webinars and product guides.

