

DATA SHEET

Si-RV4



Wireless vacuum probe



Features

- 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

DESCRIPTION

This wireless vacuum probe accurately measures absolute pressure, to ensure optimal refrigerant system evacuation down to deep vacuum in air conditioning, refrigeration and heat pump installations.

The Si-RV4 allows all types of refrigerant-based installations to be serviced quickly and safely. It connects easily to the Si-RM350 and Si-RM450 manifolds and to the mobile application Sauermann Pilot.

Designation: Si-RV4

Sales reference: 28143

TECHNICAL FEATURES

Vacuum	
Measurement and discharge valves	1x vacuum input
Measuring range	50 microns to 25 000 microns
Pressure sensing accuracy*	100 to 2000 microns: $\pm(5\% \text{ m.v. } \pm 5 \text{ microns})$ Temperature dependence: $\pm 0.0005 \times (T-20) \text{ microns (if } T < 0^\circ\text{C or } T > 30^\circ\text{C)}$
Available units	micron / mbar / Torr / mTorr / inH ₂ O / inHg / mmHg / hPa / Pa 1 micron (from 50 to 1000 microns), 10 microns above 0.00001 mbar (from 0.06666 to 1.33322 mbar), 0.0001 mbar above 0.001 Torr (from 0.050 to 1.000 Torr), 0.01 Torr above 1 mTorr (from 50 to 1 000 mTorr), 10 mTorr above
Resolution	0.0001 inH ₂ O (from 0.0267 to 0.5352 inH ₂ O), 0.01 inH ₂ O above 0.000001 inHg (from 0.001968 to 0.039370 inHg), 0.00001 inHg above 0.001 mmHg (0.050 to 1.000 mmHg) / 0.01 mmHg above 0.0001 hPa (from 0.0666 to 1.3332 hPa), 0.001 hPa above 0.01 Pa (from 6.66 to 133.32 Pa), 0.1 Pa above
Overload	27.5 bar (400 psi)
Burst pressure	35 bar (507 psi)

*All accuracies specified in this document were conducted under laboratory conditions & can be guaranteed for measurement carried out in the same conditions, or carried out with calibration compensation.

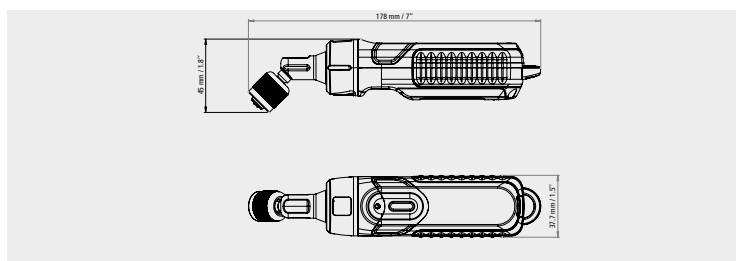
Device	
Operating temperature	From -20 to 50°C (-4 to 122°F)
Storage temperature	From -20 to 50°C (-4 to 122°F)
Power supply	3x LR03 AAA 1.5 V alkaline batteries
Battery life	150 h @ 20°C / 68°F
Wireless frequency	Range frequency from 2402 MHz to 2480 MHz with a transmission power of 8 dBm.
Wireless range	Range between manifold and wireless probes up to 100 m (328 ft). App connection: depends on smartphone radio strength, range up to 100 m (328 ft).
Compatibility	Smartphone minimum required versions: Android 11.0, iOS 15, BLE 5.0*
Connections	1x 1/4 FFL female
Environmental conditions of use	In non-condensing condition Altitude: from 0 to 2000 m (0 to 6561') Non-corrosive gases
European directives	2011/65/EU RoHS II; 2012/19/EU WEEE; 2014/53/EU RED

* Can work with BLE4.0 but the wireless range will be downgraded

HOUSING

Weight	200 g (0.44 lb)
Control	1 on/off button
Material	Polyamide 6.6 + 30% glass fiber & TPE
Protection	IP54

DIMENSIONS



KIT CONTENT

- Adjustment certificate
- 3 AAA batteries



New smart assistant app: Sauermann Pilot

Digital tech leveraged to help technicians

- Free app for iOS & Android mobile devices
- Real time control, readings display and recordings
- Create, sign and send reports with pictures
- Report creation in PDF and CSV (for Excel) formats
- Internal detailed customer database management

