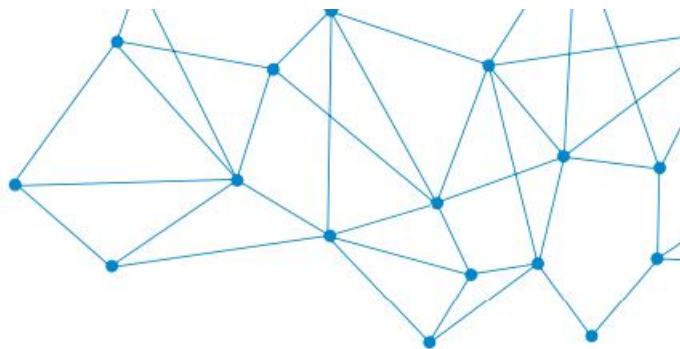




sauermann HVACR Measuring Instruments User Guide

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User Guide



HVACR PORTABLES

Quick Start Guide

www.sauermanngroup.com



These portable instruments are used to measure the following parameters: temperature, relative humidity, pressure, airflow and air velocity.

Hereby, Sagerman Industry SAS declares that the radio equipment type HVACR Portable is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.sauermanngroup.com

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1 Key operation for Si-HH3, Si-PM3, Si-TT3, Si-VH3 and Si-VV3

Key operation is differs from one device to another.

Si-HH3

KEY	SHORT PRESS	LONG PRESS (3 s)
ON/OFF ①	Backlight ON/OFF	Device ON/OFF
HOLD ②	Hold / Min / Max / Live value	DewPoint / WetBulb / %RH & Temp
ON/OFF and HOLD ①+②	Wireless communication ON/OFF	°C / °F

Si-PM3

KEY	SHORT PRESS	LONG PRESS (3 s)
ON/OFF ①	Backlight ON/OFF	Device ON/OFF
HOLD ②	Hold / Min / Max / Live value	Autozero
ON/OFF and HOLD ①+②	Wireless communication ON/OFF	Pa / hPa / mbar / inH ₂ O / mmH ₂ O / inHg / psi / m/s / fpm

Si-TT3

KEY	SHORT PRESS	LONG PRESS (3 s)
ON/OFF ①	Backlight ON/OFF	Device ON/OFF
HOLD ②	Hold / Min / Max / Live value	Delta Temp / T1&T2
ON/OFF and HOLD ①+②	Wireless communication ON/OFF	°C / °F

Si-VH3 / Si-VV3

KEY	SHORT PRESS	LONG PRESS (3 s)
ON/OFF ①	Backlight ON/OFF	Device ON/OFF
HOLD ②	Hold / Min / Max / Live value	m/s / km/h / fpm / mph
ON/OFF and HOLD ①+②	Wireless communication ON/OFF	°C / °F



- 1 - ON/OFF key
- 2 - HOLD key



Power Down menu

The instrument is supplied with auto-off activated. Enter in the Power Down Menu when starting the instrument to deactivate it.

KEY	SHORT PRESS	LONG PRES (3 s)
ON/OFF ①	-	Enter/Exit of Power Down menu
HOLD ②	Auto-off activation/deactivation	-
ON/OFF and HOLD ①+②	-	-

2 Key operation for Si-TI3

KEY	MAIN FUNCTION	OTHER FUNCTION
°C/°F ①	Switches between °C and °F	Sets Emissivity, High alarm and Low alarm
Mode ②	Displays successively Current emissivity / Emissivity to change / Max temperature / Min temperature / Difference between max and min temperatures / Average temperature / High alarm / Low alarm	-
Lock ③	Continuously displays measured temperatures	Sets Emissivity, High alarm and Low alarm
Trigger ④	Measures the surface temperature	Validates an Emissivity, a High alarm and a Low alarm.



To activate/deactivate the laser dot, press (1) and (4) keys simultaneously. To get information on other functions, please read the full technical manual downloadable from the QR code at the end of this document.

3 Insert the batteries in the instrument



- Unscrew (all instruments except Si-TI3) and remove the batteries cover 1 .
- Insert 3 (all instruments except Si-TI3) or 2 (only Si-TI3) alkaline batteries LR03 AAA 1.5 V respecting the polarity.
- Replace and screw (all instruments except Si-TI3) the batteries cover.

4 Download Si-HVACR Measurement Mobile App



- Flash the QR code to download Si-HVACR Measurement MobileApp application on your smartphone. OR
- Write “Si-HVACR Measurement MobileApp” in the search bar then validate.
- Download Si-HVACR Measurement MobileApp application by pressing its icon.
- Follow your smartphone indications.



http://qrcode.inair.cloud/sauermann/hvacr_MobileApp

4a Connect the smartphone and the instrument (all instruments except Si-TI3)

- Turn on the instrument with a long press on ON/OFF key.
- Press ON/OFF and HOLD keys to activate the wireless communication. The wireless communication icon flashes on the instrument screen.
- Launch Si-HVACR Measurement MobileApp application by pressing its icon.
- Press “Search for devices”.
- Press the line of the required device then “Connect”. The wireless communication icon becomes fix when the instrument is paired to the tablet or the smartphone.

Google Play and the Google Play logo are trademarks of Google LLC. / App Store is a service mark of Apple Inc.

4b Connect the smartphone and the instrument (Si-TI3 only)

The Si-TI3 is automatically turned on with wireless communication activated when inserting batteries.

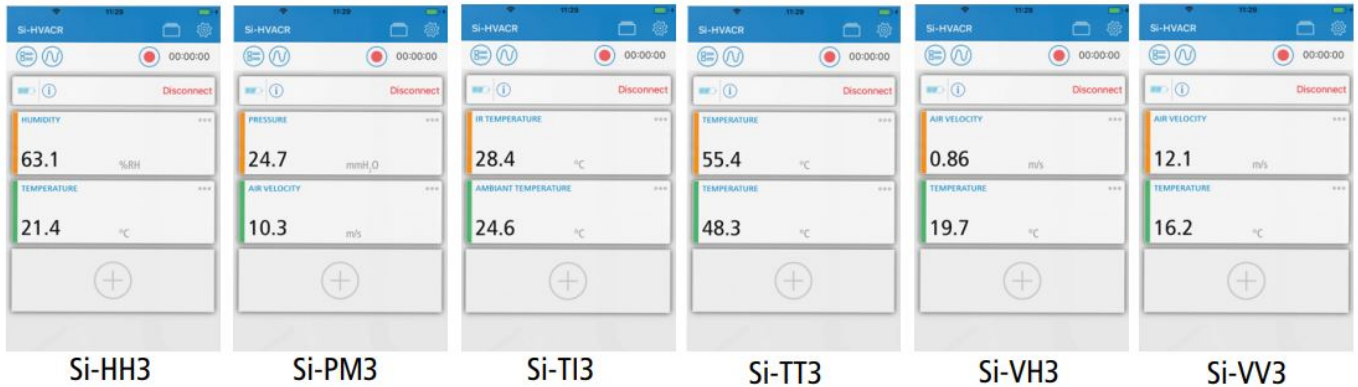
- Launch Si-HVACR Measurement MobileApp application by pressing its icon.
- Press “Search for devices”.
- Press the line of the required device then “Connect”.



The Si-TI3 will automatically shut-off after 15 s of non-use.

5 Display measurement

Once the instrument is connected to the smartphone, measurements are displayed.



6 Emissivity (Si-TI3 only)

Emissivity is a term used to describe the energy-emitting characteristics of materials. See table below for values of emissivity of specific materials:

Aluminium	0.30	Ice	0.98
Asbestos	0.95	Iron	0.70
Asphalt	0.95	Lead	0.50
Basalt	0.70	Limestone	0.98
Brass	0.50	Oil	0.94
Brick	0.90	Paint	0.93
Carbon	0.85	Paper	0.95
Ceramic	0.95	Plastic	0.95
Concrete	0.95	Rubber	0.95
Copper	0.95	Sand	0.90
Dirt	0.94	Skin	0.98
Frozen food	0.90	Snow	0.90
Hot food	0.93	Steel	0.80
Glass	0.85	Textile	0.94
Water	0.93	Wood	0.94
Fresh foodstuffs between 0 and 5 °C			0.90

Set emissivity

- With the device turned on.
- Press Mode key then use Lock key to increment or Unit key to decrease the emissivity value.
- The emissivity can be changed from 0.10 (10E) to 1 (100E).
- Press Mode key to confirm.

7 Operating temperature, protection of the instruments and information about storage and batteries

- Si-HH3 / Si-TI3 / Si-TT3: from -10 to +60°C (14 to 140°F)
- Si-HH3: IP20
- Si-PM3 / Si-VH3: from 0 to 50°C (32 to 122°F)
- Si-PM3: IP40
- Si-VV3: from 0 to 40°C (32 to 104°F)
- Si-TT3 / Si-VH3 / Si-VV3: IP54

If the instrument is stored outside the operating temperature (for example in a van, a warehouse,...) please wait for 10 minutes in its operating temperature before starting and using it.



To ensure safety, replace batteries with the same type. Not doing so runs the risk of explosion. Dispose of used batteries according to instructions.



[https://sauermann-group.com/en-INT/technical-documents?
f%5B0%5D=global_product_type%3Ameasuring%20instruments](https://sauermann-group.com/en-INT/technical-documents?f%5B0%5D=global_product_type%3Ameasuring%20instruments)

Download the full manual



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Documents / Resources

	<p>sauermann HVACR Measuring Instruments [pdf] User Guide HVACR, Measuring Instruments</p>
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