![Sauermann logo]

# HVACR PORTABLES

## Quick Start Guide

EN  FR  ES  PT  DE     ZH

Test Equipment Depot - 800.517.8431 - TestEquipmentDepot.com

## English

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

Hereby, Sauermann Industrie 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.

### 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 |

1 - ON/OFF key
2 - HOLD key

#### 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 |

#### 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 betwen °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 MobileApp

- 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.

### 5a 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.

## 5b 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"**.

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

## 6 Display measurement

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



| Si-HH3 | Si-PM3 | Si-TI3 | Si-TT3 | Si-VH3 | Si-VV3 |

## 7 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.

## 8 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-PM3 / Si-VH3: from 0 to 50°C (32 to 122°F)
- Si-VV3: from 0 to 40°C (32 to 104°F)

- Si-HH3: IP20
- Si-PM3: IP40
- 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 rise of explosion. Dispose of used batteries according to instructions.

Download the full manual

**Product overview**

Si-PM3

Si-VH3

Si-VV3

Si-TT3

Si-HH3

Si-TI3

Si-HVACR Measurement MobileApp

**FR**
Cet appareil,
ses accessoires
et piles
se recyclent

À DÉPOSER
EN MAGASIN

OU

À DÉPOSER
EN DÉCHÈTERIE

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