

DIGITAL REFRIGERANT SCALE

Si-RS1
User manual

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Symbols used

For your safety and in order to avoid any damage of the device, please follow the procedure described in this user manual and read carefully the notes preceded by the following symbol:



WARNING: Wear Safety Goggles.
Avoid Contact with Refrigerant



STATIC DISCHARGE: Climates in some parts of the world are conducive to creating static electric build up (ESD). Your scale has been designed to eliminate the damaging effects of ESD. In some extreme cases, ESD will be apparent on your scale by a lack of response or an inability to turn off the unit. In the rare case that this occurs, simply disconnect the battery, wait 1 minute and reconnect the battery. The scale will “reboot” itself and operate normally once the unit is turned on.

1 Key functions

ON/OFF: Turns unit ON or OFF

UNIT/SHIFT: UNIT - Select display in lb, oz or kg

SHIFT - Move from one digit to the next, to edit display / To set up tank capacity



To Increase Value



To Decrease Value

CHARGE/PAUSE: CHARGE - To start CHARGE/RECOVERY mode

PAUSE - To pause and resume in CHARGE/RECOVERY mode

TARE/ENTER: TARE - zeros out display in BASIC CHARGING

ENTER - to start operation or input data

REPEAT: REPEAT - to repeat the last action

CLEAR: Use to clear the display during PROGRAM CHARGING ONLY! (DO NOT use CLEAR for any other function!)

2 Checklist (prior to first use)



Your unit includes a 9 V battery. Install battery. Place the platform on a flat surface and press **ON/OFF** button to turn unit on. The scale will begin counting down from 999999 to 000000! (DO NOT PRESS CLEAR while the unit is counting down). Proceed to BASIC or PROGRAM CHARGING.

If the digital readout displays a small weight (± 0.5 Ounce or ± 20 Grams) press and hold the **TARE/ENTER** button for approximately 30 seconds until you hear a DOUBLE BEEP. The scale will automatically zero out. Proceed to BASIC or PROGRAM CHARGING.

3 Basic charging

1. Remove platform from case.
2. Place platform on level surface.
3. Place DOT tank in center of platform and connect to liquid port. (Place disposable tank upside down).
4. Make sure the charging lines and the system are free of air using deep vacuum pump. (Follow vacuum instructions)
5. Press **ON/OFF** button to turn unit on.
6. Press **TARE/ENTER** button – display will read zero. (If the scale has not been used for a while press and hold **TARE/ENTER** button to reset the scale).
7. Open the valve to begin charging.
8. When the desired amount is reached, close the valve.
9. Press **ON/OFF** button to turn unit off.

4 Program charging

1. Repeat steps (1 through 5) in “3 - Basic charging”.
2. Press **CHARGE/PAUSE** button.
3. Set amount of refrigerant you want to charge using **CLEAR**, ,  and **SHIFT** buttons.
4. Press **ENTER** to start.
5. Open the valve on the tank to begin charging. Just before charging is completed, a short alarm will sound, allowing time to turn off supply.

6. When charging is completed, scale will sound an alarm again and display CH/END. Press any button to stop alarm. (If the tank is empty and the charge is not complete, Empty Tank will display. Replace the tank and press **CHARGE/PAUSE** button to resume charging).

7. When the desired amount is reached, close the valve and press **ON/OFF** button to turn unit off. This unit is preprogrammed for minimum and maximum cylinder weight 0 kg / 110 kgs (0 oz / 240 lbs). To change cylinder weight setting, refer to "7 - Instructions for setting tank capacity".





5 Repeat charging

1. Press **REPEAT** to start charging the previously stored amount.
2. Open the valve.
3. When desired amount is reached, close the valve and press **ON/OFF** to turn unit off. (If scale was turned off, follow steps (1 through 5) of "3 - Basic charging", then follow the "5 - Repeat charging" steps).






6 Recovery/Recycle

1. Repeat steps (1 through 7) in section "3 - Basic charging".
2. Begin recycling.
3. The display indicates the amount of collected refrigerant when recycling is completed.

7 Instructions for setting tank capacity

1. Turn on the unit.
2. Select readout using **UNIT/SHIFT**.
3. Press UNIT/SHIFT again and hold down until the last digit in display "blinks".
4. Use **CLEAR**, ,  and **SHIFT** to input the empty tank weight.
5. Press **ENTER** to set the empty tank weight. The display will read "GOOD" to confirm.
6. Use **CLEAR**, ,  and **SHIFT** to input full tank weight.
7. Press **ENTER** to set the full tank weight. The display will read "GOOD - OUT" to confirm.
8. Press **ON/OFF** button to turn unit off.

8 Calibration procedure

1. Turn on scale. When "HELLO" is displayed press **TARE/ENTER** and **CLEAR** together. Display will show "SEt-1".
2. Press **TARE/ENTER**. Display will show "SEt-1!" for kg calibration (for lb calibration press  and "SEt-1?" will display.) Press **TARE/ENTER** to confirm.
3. A " _ _ _ _ " 5 digit number will display. Press .
4. Place calibration weight on scale.
5. Press . Press **TARE/ENTER**. Number displayed must match calibration weight. If a digit needs to be changed, press **UNIT/SHIFT** to activate digit (digit will blink.) Press  or  to change number. Repeat until all digits are changed.
6. When number displayed agrees with weight on scale press **TARE/ENTER**. Calibration is complete. Once "HELLO" appears you can remove the weight.

9 Replacing the battery

Replace 9 V battery when a low-battery symbol prompts on LCD. DO NOT OPERATE with a low battery.

10 Using the digital charging scale and the Sauer mann Pilot app

There are 3 ways to use:

1. Use the scale by itself.
2. Connect to Sauer mann Si-RM350 or Si-RM450 Digital refrigerant manifold and visualize data in real-time during refrigerant charging or recovering: weight, pressure and temperature.
3. Connect the scale to the free Sauer mann Pilot smart assistant app for full mobility.

For details on how to use with the Si-RM350 and Si-RM450 see the user manual of the digital refrigerant manifolds. For details how to use with the Sauer mann Pilot APP see the APP user manual.



WARNING • Cancer and Reproductive Harm — www.P65Warnings.ca.gov