

# Si-RM13

## SAFETY INSTRUCTIONS



- This device has been developed for the pressure and temperature measurements and settings on stationary or mobile refrigeration equipments. It must not be used in any other purpose.
- This device has been developed, produced and sold exclusively to trained and qualified experts in the field of HVACR. Appropriate training is necessary in order to guarantee a riskless use of this instrument. Sauermann is not responsible for any possible accident during its use.
- Please always use the device in accordance with its intended use and within parameters described in the technical features in order not to compromise the protection ensured by the devices.
- Maximum operating pressure: 65 bar (942 psi)
- The device must not be used with ammoniac refrigerant gas (NH<sub>3</sub> / R717)
- Do not use the device if it is damaged or if it operates abnormally. Inspect the device before every use.
- Always wear protective glasses and gloves when using the Manifold in order to protect your eyes and skin when operating refrigerant gases. The vapours of refrigerant gases are extremely cold. Do not expose your skin to these vapours.



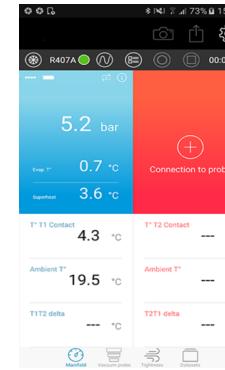
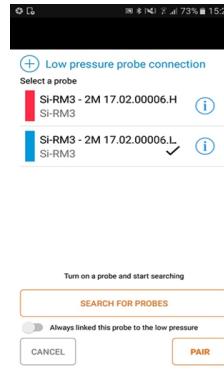
Please refer to the complete user manual of the Si-Manifold application to get more information about safety instructions.

## PAIR THE PROBES

Example with the low pressure probe:



Before any measurement, perform an auto-zero of the probe in fresh air.



Perform an auto-zero of the probe in fresh air by pressing



and then perform the same procedure to pair the high pressure probe

Press "Connect the probe" on the left-hand corner of the screen.

Turn on the low pressure probe.

Press "Search for probes".

Select the probe to pair and press "Pair".

After a few seconds, measured values are displayed.

Available on the  
Google play

Download on the  
App Store

## DOWNLOAD THE APPLICATION

- Go to Google store or App store.
- Search for "Si-Manifold" application.
- Install the application.



It is also possible to download the application by flashing the following QR code:

## CONNECT THE MANIFOLD ON A REFRIGERATION SYSTEM

› Vacuum the Manifold and the hoses with the valves closed in order not to contaminate the refrigeration system with sludge or other gases, air, oil or moisture.

To perform this operation:

› Connect the three hoses on the Manifold block:

- Low pressure: blue hose
- High pressure: red hose
- Vacuum: yellow hose

› Fit the yellow hose (connected to the Manifold block centre) to the vacuum pump.  
› Close the blue and red hose valves or, if the hose does not have valves, connect the hoses on the installation sockets.  
› Open the Low pressure and High pressure valves.  
› Switch on the vacuum pump for a few minutes until the Si-Manifold app displays 1 bar (14 psi).

Once the vacuum correctly performed:

› Close the Manifold block Low pressure and High pressure valves.  
› Connect the hoses on the Low pressure and High pressure sockets of the refrigeration system, if it is not already done.  
› Open its valves.  
Si-Manifold application displays the respective pressures of the installation.

## DISCONNECT THE MANIFOLD FROM A REFRIGERATION SYSTEM

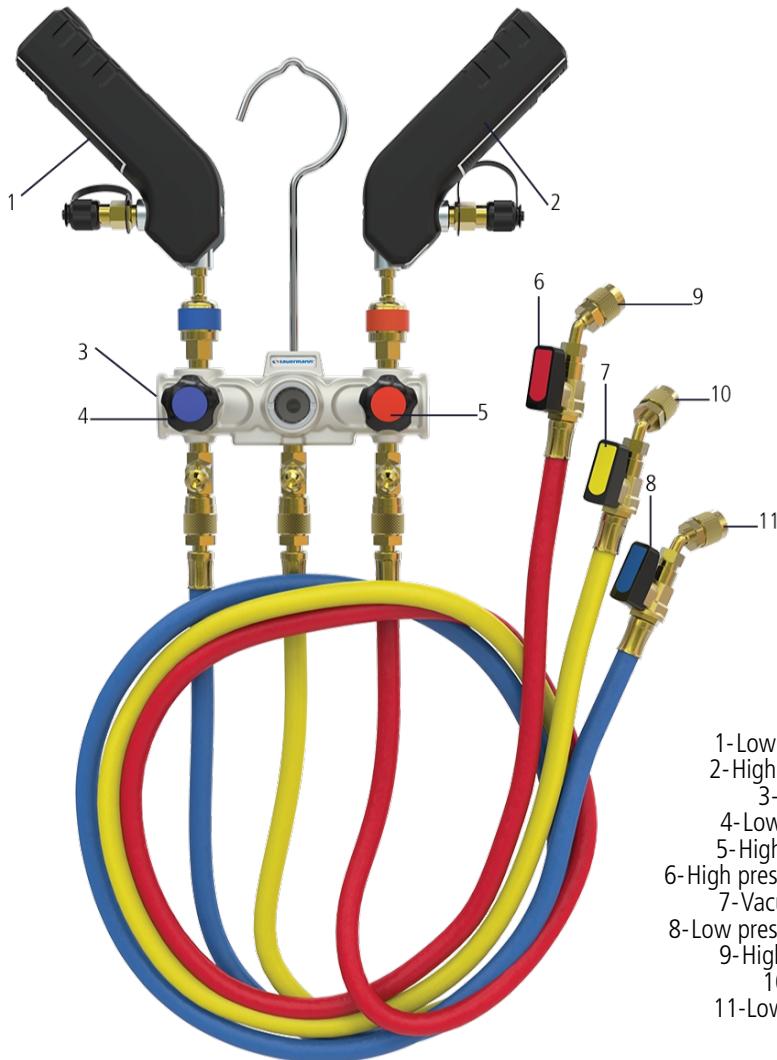
The purpose is to loose a minimum of fluid during this operation.

If the system allows it, use a valve to allow the air compressor to vacuum the fluid.

Once the Si-Manifold application display is getting close to 0 bar (0 psi):

› Close the system valves.  
› Close the hose valves.  
› Remove the hoses and do not forget to open the valve used to collect the fluid with the compressor.

If the system does not have valves on the sockets, and therefore has Schrader® fittings, close the hose valves and unscrew them.



1-Low pressure probe  
2-High pressure probe  
3-Manifold block

4-Low pressure valve

5-High pressure valve

6-High pressure hose valve

7-Vacuum hose valve

8-Low pressure hose valve

9-High pressure hose

10-Vacuum hose

11-Low pressure hose

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