

Seitron Smart Analysis - Be Cool Evo



MECHANICAL DESCRIPTION

User interface description

- 1 **Multifunction button:** Press and hold for 3 seconds to turn the instrument on/off.
Press and hold for more than 10 seconds to reset the instrument.
- 2 **Flashing red LED:** low battery.
Solid red LED: battery charging.
Solid green LED: battery fully charged (visible only if charging occurs with the instrument turned off).
- 3 **White LED:**
2 flashes every 5 s: Bluetooth waiting for connection (searching)
2 flashes + 3 rapid flashes every 5 s: Bluetooth waiting for connection (searching) and recording
1 flash every 5 s: Bluetooth connected
1 flash + 3 rapid flashes every 5 s: Bluetooth connected and recording
- 4 Color TFT touch screen display
- 5 USB Type-C interface (with safety cover)

Manifold description

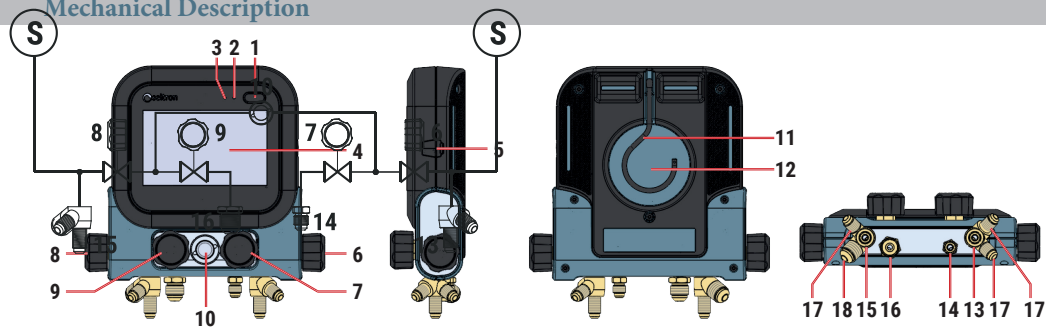
- 6 Right branch valve control knob High/Low pressure
- 7 Right branch valve control knob for refrigerant gas charge connection
- 8 Left branch valve control knob High/Low pressure
- 9 Left branch valve control knob (fitting with 3/8 SAE connection)
- 10 Refrigerant gas flow sight glass
- 13 1/4 SAE connection for right branch refrigerant gas pipe High/Low pressure
- 14 1/4 SAE connection for refrigerant gas charge pipe
- 15 1/4 SAE connection for left branch refrigerant gas pipe High/Low pressure
- 16 3/8 SAE connection for vacuum pump connection
- 17 1/4 SAE blind connection for flexible hose support
- 18 3/8 SAE blind connection for flexible hose support
- S Pressure sensor

Other

- 11 Instrument suspension hook
- 12 Magnetic section for hook fixing

THE FLEXIBLE HOSE FITTINGS ARE KNURLED AND MUST BE TIGHTENED BY HAND ONLY, WITHOUT THE USE OF TOOLS.

Mechanical Description



TECHNICAL FEATURES

Bluetooth® Connectivity	Bluetooth® communication dist. 80 m (max) in open field
Operating temp. -10 °C - +50 °C	Operating humidity +20% - +80% RH non-condensing
Storage temp. -20 °C - +60 °C	Storage humidity +10% - +90% RH non-condensing

Be Cool Evo M4S - 4-way digital manifold

Power supply Rechargeable Li-Ion battery 3.7 Vdc 5200 mAh	Resolution 0.01 bar
Charging parameters 5 V 2 A	Accuracy 0.5% Full Scale
Measuring range -1.00 - +55.00 bar	Protection rating IP54

Be Cool Evo T1S - Smart temperature probe

Power supply 2x1.5 V size AAA batteries	Resolution 0.1 °C
Sensor type NTC 10 k $\pm 1\%$ B25/85=3977K $\pm 1\%$	Accuracy ± 1 °C
Measuring range -50 °C - 150 °C	Protection rating IP54

PAIRING - ASSOCIATING TEMPERATURE PROBES TO THE INSTRUMENT

1. Turn on the devices to be paired: press and hold the button until all LEDs light up briefly; then release the button.
2. Enter the Pairing menu of Be Cool Evo M4S: Settings => Pairing.
3. Click on the icon related to the device you want to pair to start scanning (Be Cool Evo T1S, Be Cool Evo T1S).
4. Wait 10 seconds and select the row corresponding to the serial number of the Bluetooth® device to be paired; the serial number is found on the device's rating plate preceded by " S/N: "
5. The instrument automatically pairs the selected Bluetooth® device. The icon for the paired device appears in the top bar. Once paired, the devices will connect automatically upon power-on.

LEGEND

Search for devices (no device paired): Starts scanning to pair a new device.

Unpair device: Removes the device from the list of saved devices.

Connected device: paired and connected. The icons relating to the paired devices appear in the top bar.

Device not connected: paired, but not connected. The icons relating to the paired but not connected devices appear in the top bar.

SYSTEM PRESSURE MEASUREMENT

- Measurement graph.
- Setting the refrigerant gas in use.
- Performs pressure zero.
- Gauges visualization

Use the arrows to configure the visualization:

Manual Configuration:

The colors on the screen must "follow" the physical position of the pipes connected to the instrument:

Light blue = low pressure / Red = high pressure.

The temperature values follow the color of the pressure gauge (Light blue = low temp. Red = high temp.).

Automatic Configuration:

Automatically detects the high and low pressure branch and correctly organizes the readings (pressure and temperature) on the screen, respecting the physical connections made on the system.

SYSTEM PRESSURE LEAK TEST

Be Cool Evo T1S, to be applied to the low pressure pipe.
Be Cool Evo T1S, to be applied to the high pressure pipe.

ALL INSTRUMENT VALVES MUST BE CLOSED

To perform a correct leak test, it is necessary to enable compensated temperature in the Settings menu, then connect the Be Cool Evo T1S temperature probe to the instrument.

To ensure accurate measurement, it is essential that the probe remains suspended in the air and is not placed on any surface.

- **Measurement screen - Gauge visualization.**
- **Measurement graph.**
- **Parameter setting:** Acceptable leak settable from 0 % to 100 %
- **Test duration** settable from "5 min" to "48 h"
- **Compensated Temperature** (enable/disable)
- **Starts the system leak test.**
- **Stops the system leak test.**