SMG Series User Manual
Important
Thank you for buying our brand new pressure gauge. Please read this manual thoroughly before use and keep it with the gauge for further consultation.

Overview

SMG series are professionally digital gauges used for maintaining, monitoring and evacuating refrigeration systems and charging refrigerant. The gauges can measure system pressure and display various parameters such as the evaporation temperature of corresponding refrigerant. They have backlight, auto off, unit switch, over range alarm and other functions.
Specifications

High Pressure Gauge Range: -14.5psi~800psi
Low Pressure Gauge Range: -14.5psi~500psi
Resolution: 0.5psi
Accuracy: ±0.5%FS
Sampling Rate: 1s
Temperature Unit: °C/°F
Backlight Auto OFF: 3s, 4s, 5s, 10s, 15s
Pressure Units: MPa, bar, psi, kPa, kg/cm², cmHg
Auto OFF: 10min, 20min, 30min, 40min, OFF
Compatible Types: 87
Battery: 3 AAA batteries
Battery Life: 6 months
Over Range Alarm: Displays -OL-

⚠️ The gauges are for technical professionals only.

⚠️ Do not contact the gauges with harmful or corrosive liquid, especially ammonia refrigerant.
⚠️ Never face the fittings directly to human body because the remaining refrigerant in the gauges and hoses may cause injury.
⚠️ Wear protective clothing, protective gloves and safety goggles when working with refrigerants, which can cause cold injury, etc. Disconnect hoses with extreme caution.
⚠️ Do not inhale refrigerant vapor, lubricant and oil mist. Inhalation of refrigerant with high concentration may cause arrhythmia, anesthesia or even death by suffocation.
⚠️ If your eyes are in direct contact with the refrigerant, rinse immediately with water and see a doctor.
⚠️ Remove the batteries if the gauge is not to be used for a long time in case the leakage corrodes the gauge. The batteries included are not rechargeable. Please do not charge them.
⚠️ The battery is dangerous. Be extra careful when using it. Never dispose of used batteries in regular trash can (but in the battery recycle box) to cause danger or harm to environment.
⚠️ Please dispose of the refrigerant in compliance with local environmental regulations.
Operation

1. ON/OFF
ON: Press button and the gauge will display current pressure.
OFF: Press and hold button until the screen is off.

*Note: When pressure is over measuring range: -OL- shows, backlight flashes and ALM symbol lights.*

2. Backlight
When the gauge is ON, press button to light up backlight.

3. Max/Min Memory and Clear
Light up backlight and press button to display MAX symbol & value, then hold button until 8888 shows on screen, to clear current Max value.
When backlight is on, press button twice to display MIN symbol & value, then hold button until 8888 shows on screen to clear current Min value.

4. Zero
Press and hold button until 8888 shows on the screen, then release to clear the current value to 0.

*Note: Please use button to zero the gauge before connecting it to the system.*

5. Refrigerant Selection
Under normal running status, press or to switch between refrigerants.

6. Settings

- **Auto OFF**
Press and hold button until AUTO shows on screen, then use and to switch ON/OFF Auto OFF function.

*Note: AUTO symbol will show on the screen if Auto OFF function is enabled.*

- **Temperature Unit**
Press and hold button until AUTO shows on screen, press button once until C-F shows, then use or to switch between °C and ºF.

- **Pressure Unit**
Press and hold button until AUTO shows on screen, press button twice until UNIT shows, then use or to switch between pressure units.

- **Backlight Time**
Press and hold button until AUTO shows on screen, press button three times until b-L shows, then use or to switch backlight auto off time.
Connecting to an A/C system

Compatible Refrigerants

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