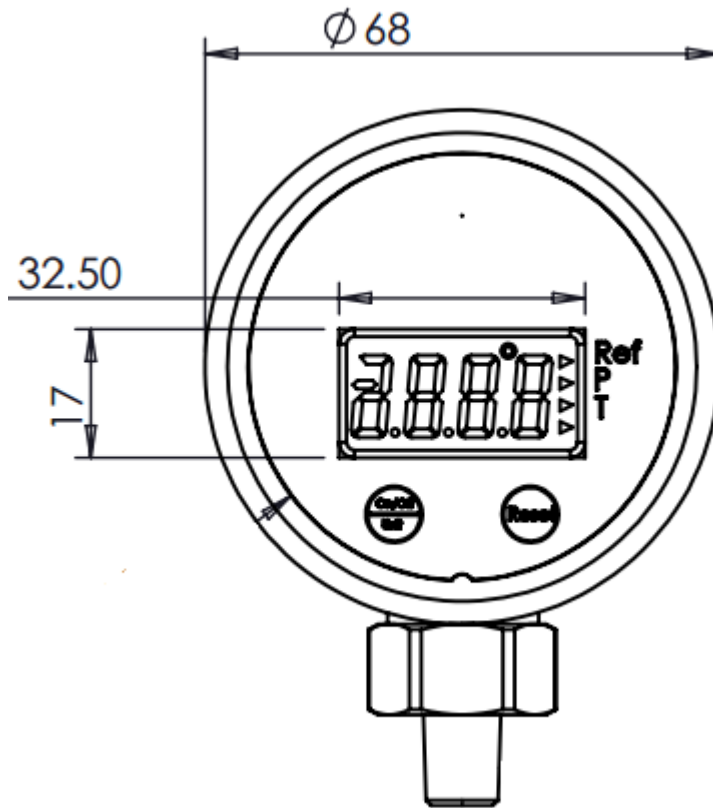# M25-R (Refrigerant) Meter User Manual

Specifications:

Power supply: Battery CR123A (3.0V, 1400mAh)

Sampling rate=1.2 sec max.

Battery life: 2 years for continuous operation without back light.

Pressure range: 0~750 psi

Burst pressure:3x F.S.

Resolution: 0.5 psi

Working temperature: -10℃~60℃

Pressure accuracy: ±0.5% F.S (@22~28℃) for 2 bar＜pressure range ＜100 bar, ± 1% for pressure range ≦2 bar or pressure range≧ 100 bar.

Port：1/8 NPT, 1/4 NPT

Measure fluid: gas and liquid (compatible with SUS304L)

Unit: PSI , BAR , Kg/cm2 ,MPA, kPa, In-Hg, mm-Hg, Atm

Working humidity:35~85%

LCD: 4 Digits

Key Function:

ON/Ref /OFF (SW1) **:** Power on/ Refrigerant change/ Power off

LIGHT/ P-T (SW2)   **:**Back Light / P-T change

Operation:

1. Press "ON/Ref /OFF" key to power on. The LCD shows the previous refrigerant around 3 seconds. Afterwards, shows the pressure reading.

2. Pressing "ON/Ref /OFF" key will show current used refrigerant. Press "ON/Ref /OFF" again will show next refrigerant to be selected. As the requiring refrigerant appears on the LCD, wait around 5 seconds to confirm the setting and come back to the measuring state.

3. Press "LIGHT/ P-T" key to turn on the backlight for 5 seconds.

4. Press and hold "ON/Ref /OFF" key and "LIGHT/ P-T" key simultaneously for 3 seconds. The LCD shows "8888" and then re-zero meter. It will calibrate the error due to atmosphere variation. Don't re-zero in the closed pipe.

5. Press and hold "LIGHT/ P-T" key for 3 seconds. The LCD shows temperature reading. If press and hold "LIGHT/ P-T" key again, The LCD shows pressure reading again. Every time you power on the meter, it will show the pressure reading.

6. Press "ON/Ref /OFF" key for 3 seconds to power off the meter.

How to change the units of pressure and temperature

A. Press and hold "ON/Ref /OFF" key more than 3 seconds in the power off state until the LCD shows "P-x" ("x" will flash and show previous setting). Then release the key.

B. Press "LIGHT/ P-T" key to select the pressure unit (P-2 →P-2→ P-3→P-4→….P-8→P-1…). The meaning are as below:

P-1: PSI, P-2:BAR, P-3:Kg/cm^2, P-4:kPa, P-5:MPa, P-6: In-Hg, P-7:mm-Hg, P-8:Atm

C.   Press "ON/Ref /OFF" key to complete the setting of pressure unit and enter the

setting of temperature unit. The LCD show "t-C" or "t-F".

D. Press "LIGHT/ P-T" key to select the temperature unit (t-C →t-F→t-C..)
   t-C**:** ℃, t-F: ℉.

E: Press "ON/Ref /OFF" key to finish all settings. The LCD shows "LoAd" around 2
   seconds and then come back to the measuring state of pressure.