

## User Manual

### DMG-3 Series Manifold



DMG-3

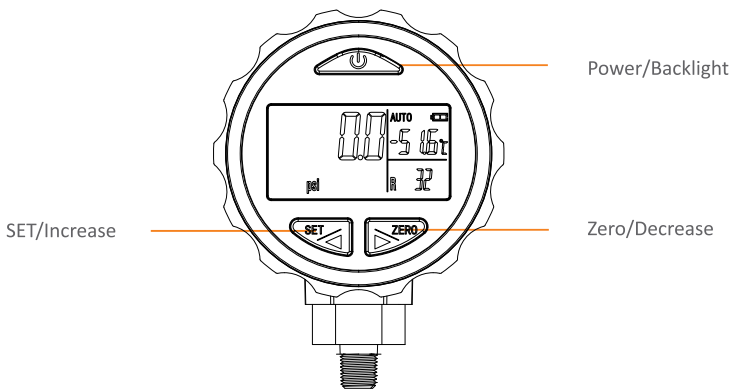
DMG-3B

## 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

DMG-3 series are digital pressure gauges designed for refrigeration systems maintenance during evacuation, refrigerant charging, etc. The gauges feature a high-precision pressure sensor that gives accurate and reliable measurement. Their digital LCD display screen gives instant and intuitive indication on refrigerant relative saturation temperature. They also have auto off, unit switch, over-range alarm and other functions.



## Specifications

High Pressure Gauge: -14.5psi~800psi

Low Pressure Gauge: -14.5psi~500psi

Resolution: 0.5psi

Accuracy:  $\pm 0.5\%$ FS

Sampling Rate: 1s

Temperature Unit:  $^{\circ}\text{C}/^{\circ}\text{F}$

Backlight Auto OFF: 3s, 4s, 5s, 10s, 15s

Pressure Units: MPa, bar, psi, kPa,  $\text{kg}/\text{cm}^2$ , 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 °F.

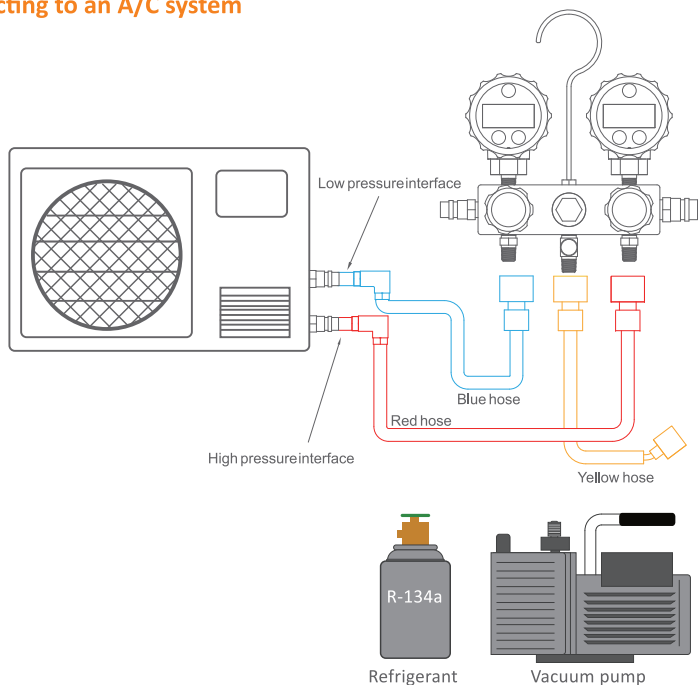
### ◆ Pressure Unit

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





## Configuration

	DMG-3	DMG-3B
Refrigerant Charging Hose	√	√
Quick Coupler	√	-
Corkscrew	√	√
Valve core wrench	√	√
R410A adapter	√	√

## Compatible Refrigerants

R114	R152A	R402B	R409B	R420A	R443A	R504
R12	R161	R403A	R41	R421A	R444A	R507A
R123	R170	R403B	R410A	R421B	R448A	R508A
R1234yf	R21	R404A	R410B	R422A	R449A	R508B
R1234ze	R218	R406A	R412A	R422B	R449B	R509A
R124	R22	R407A	R413A	R422C	R450A	R513A
R125	R23	R407B	R414A	R422D	R452A	R600
R13	R290	R407C	R414B	R423A	R455A	R600a
R134a	R32	R407D	R415B	R427A	R50	R601
R14	R401A	R407E	R416A	R437A	R500	R601a
R141B	R401B	R407F	R417A	R441A	R502	R740
R142B	R401C	R408A	R419A	R442A	R503	R744
R143A	R402A	R409A				



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