

PG-20 DIGITAL PRESSURE GAUGE

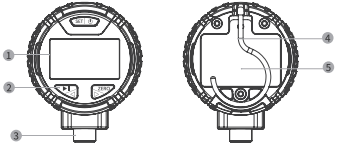
USER MANUEL

ENSURE SAFETY

- Do not operate the instrument if there are signs of damage at the housing.
- The instruments are compatible with most noncorrosive refrigerants, water and glycol.
- The instruments are not compatible with refrigerants containing ammonia.
- The products must not be used in potentially explosive atmospheres!
- Dangers may also arise from the refrigeration systems being measured or the measuring environment: Note the safety regulations valid in your area when performing the measurements.

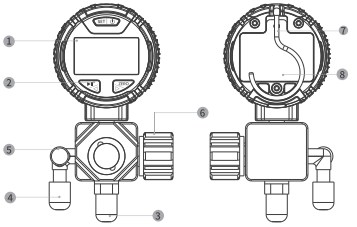
OVERVIEW

PG20



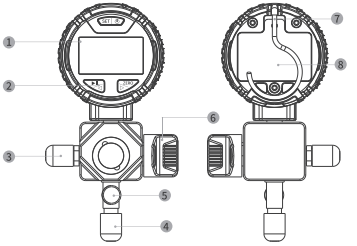
① LCD screen ② Button ③ Interface 1/8NPT
④ Hook ⑤ Battery cover

PG20G



① LCD screen ⑤ Press Exhaust gas
② Button ⑥ Valve
③ Interface 1/4SAE(CONNECT AC) ⑦ Hook
④ Interface 1/4SAE ⑧ Battery cover

PG20B



① LCD screen ⑤ Press Exhaust gas
② Button ⑥ Valve
③ Interface 1/4SAE(CONNECT AC) ⑦ Hook
④ Interface 1/4SAE ⑧ Battery cover

PARAMETER

Pressure measurement range	-14.5~800psi
Pressure display resolution	0.5psi
Pressure measurement accuracy	±0.5%FS
Pressure unit	kPa、MPa、psi、inHg、bar、kg/cm²
Temperature unit	℃、℉
Operating temperature	-10℃~50℃
Storage temperature	-20℃~60℃

ⓘ The maximum range for pressure measurement is 800psi, the measurement target exceeding the range is displayed as ——。

BUTTON FUNCTION

	Press	Long Press
SET	Setting	On and Off
▶||	Setting Refrigerant	Turn on/Off Pressure holding test
ZERO	Setting Refrigerant	Pressure zeroing
▶|| + ZERO		Enter/Exit Pressure Leak Test

ICON DESCRIPTION

Leak Test	Pressure Leak Test Function
☆	Commonly used refrigerants
APO	Auto Power Off
	Battery level Display ▭ when the instrument is almost empty and the battery must be replaced as soon as possible.

ⓘ The APO icon lighting up indicates that the automatic shutdown function is enabled. Automatic shutdown does not work during the pressure-holding process.

OPERATING INSTRUCTIONS

1.Temperature unit settings

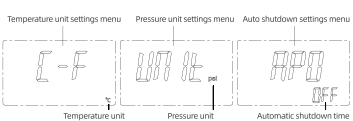
- Press SET Enter the settings menu, the instrument displays the C-F interface.
- Press ▶|| / ZERO Choose temperature unit.

2.Pressure unit settings

- Press SET Enter the settings menu and press the SET briefly again to switch to the UNIT settings screen.
- Press ▶|| / ZERO Choose pressure unit.

3.Exit Settings

- Press SET Enter the settings menu, press SET Switch through the settings menu in order, then exit.
- The settings menu will automatically exit after 5 seconds of inactivity.



4.Auto Power Off

- press SET Enter the settings menu and press the SET briefly again to switch to the UNIT settings screen
- press ▶|| / ZERO Set the automatic shutdown time or turn off the automatic shutdown feature

5.Setting Refrigerant

- Short press ▶|| or ZERO to select the correct refrigerant.

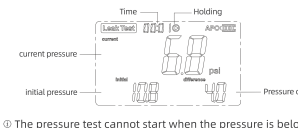
6.Reset to Zero

- Keep the instrument connector connected to the atmosphere, long press ZERO to zero the pressure.

ⓘ Pressure zeroing should be carried out when the instrument is not connected to the target system and the instrument interface is connected to the atmosphere, incorrect zeroing will make the measurement data inaccurate, if misuse follow the correct method to re-zero can be restored to normal.

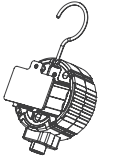
7.Pressure Leak Test

- Long press ▶|| + ZERO the instrument enter the pressure leak test function.
- Long press ▶|| start holding，the instrument starts timing and displays the initial pressure, real-time pressure, and pressure difference.
- During the test, long press ▶|| to pause the pressure-holding test. During the pause, short press ZERO to reset the test duration and data.
- Long press ▶|| + ZERO to exit the pressure-holding function.



ⓘ The pressure test cannot start when the pressure is below 0, and the instrument does not respond to operations.
ⓘ The maximum pressure-holding timer is 24 hours. Once it reaches 24 hours, the device will automatically stop holding pressure.

CHANGING BATTERIES



1. Switch off the instrument and fold the hook.
2. Loosen the fixing screws of the battery compartment cover.
3. Snap open the battery compartment cover along the groove at the bottom of the compartment.
4. Remove the spent batteries and insert new ones into the battery compartment. Observe the Polarity.

AVAILABLE REFRIGERANTS

US NIST standard data for 88 refrigerants

R113	R114	R115	R116	R12	R123	R1233ZD
R1234ZE	R1234YF	R124	R125	R13	R134A	R14
R141b	R143A	R152A	R170	R22	R227EA	R23
R236FA	R245FA	R290	R32	R401A	R401b	R401C
R402A	R402b	R403b	R404A	R406A	R407A	R407b
R407C	R407D	R407F	R408A	R409A	R410A	R410b
R412A	R413A	R414A	R414B	R416A	R417A	R417C
R420A	R421A	R421b	R422A	R422b	R422C	R422d
R424A	R426A	R427A	R428A	R429A	R433B	R434A
R436A	R437A	R438A	R441A	R443A	R448A	R449A
R450A	R452A	R452b	R453A	R454A	R454b	R455A
R458A	R500	R502	R503	R507A	R508A	R508b
R514A	R600	R600A	R601A			

ⓘ Refrigerants R236FA, R245FA are shown in the instrument as R236F and R245F

ⓘ The following 16 refrigerants are commonly used, with ☆ displayed above the icon, and the commonly used refrigerants are arranged in front of the less commonly used refrigerants for quick and easy switching.

R1234yf	R134a	R22	R23	R290	R32	R404A
R407C	R410A	R433B	R436A	R502	R503	R507A
R600	R600A					

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