

ASP-80

series

DIGITAL PRESSURE GAUGE

[User Manual]



First of all, thank you for purchasing our company's ASP-80 digital pressure gauge.

When using, please note the following points.

Precautions for using ASP-80 digital pressure gauge

- Working pressure cannot exceed the loading pressure on the data plate of ASP-80, or it may damage the gauge.
- Before use, please confirm whether the pressure medium is consistent with the medium required on the ASP-80 data plate.
- Using the ASP-80 only in the operating environment described in the manual.
- Only use the power supply method described in this manual for power supply.
- When the battery lower than demand, ASP-80 will shut down automatically. Please change the battery in time.
 - Please check the ASP-80 periodically according to relevant regulations.

● Product specifications

Pressure unit: Switching between mmH₂O, mmHg, inH₂O, inHg, kgf/cm², psi, kPa, MPa, Pa, hPa, mbar and bar. ASP-80 will automatically select switchable pressure units according to different measuring ranges.

Usage environment: Ambient temperature (-20~70)°C; Relative humidity <95%RH; Atmospheric pressure (86~106) kPa; Storage temperature: (-30~80)°C.

LCD display: Full viewing angle LCD screen, white backlight, 4 digit display.

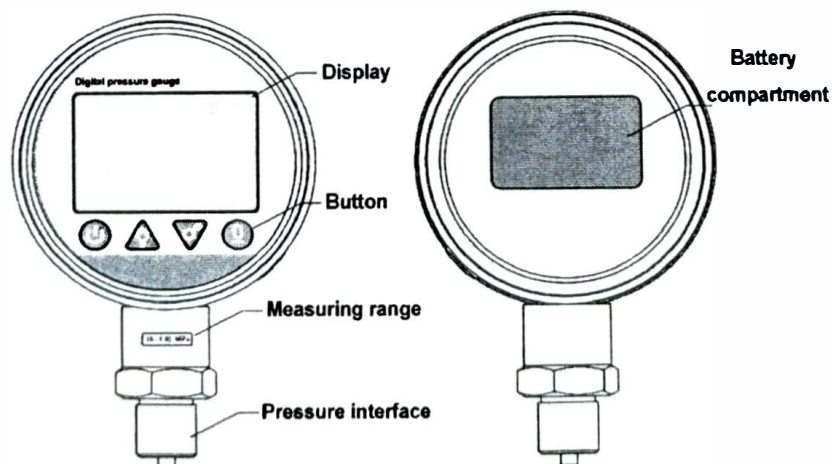
Power supply: 1.5V AAA * 2

Dimensions: head φ80mm × 50mm, Total length 140mm.

Thread specifications: M20 × 1.5 male thread for default, other thread size for optional


Weight: About 0.3kg


2. Product structure drawing





3. Button function



 **Power button:** Long press for 2 seconds, the ASP-80 power can be turned on/off.



 **Backlight button:** Press this button to turn on/off the screen backlight.

 **Setting button:** Short press to switch pressure unit display. Long press to enter setting menus.

 **0-setting:** Clearing the pressure value.

4. Operation instructions

(1) On/off



In the off mode, long-press  power button for 2 seconds to turn on, when turn on, the screen displays the pressure range and then enters the measurement mode. In the measurement mode, long press  for 2 seconds will turn off.

(2) Pressure measuring


After power-on, ASP-80 will automatically enter the pressure measuring mode, screen shows the pressure value, pressure unit, pressure percentage, pressure cursor indication, battery power and other function icons. The pressure unit will remain at what set by the users. When the pressure measurement exceeds 120% FS (120% of the full scale), the screen displays -OH- to indicate over-pressure. Please relieve pressure in time to avoid damage to the pressure sensor.

(3) Pressure zero-clearing


Before the clearing is operated, the pressure port of ASP-80 must be connected to the atmosphere and the pressure port must be vertically downward.




Press  0-setting can clear the pressure measurement value, long press  0-setting can cancel clearing.

(4) Pressure unit switch


Press  setting button, can switch screen display pressure unit, to ensure the pressure value is displayed correctly that not all pressure values can be switched. ASP-80 can automatically configure the switchable pressure units based on pressure measurements value.

(5) Display peak record














In the measurement mode, press  power button, ASP-80 switches to display the maximum pressure value, the

minimum pressure value, and the current pressure value. The screen displays  icon when the maximum pressure value is displayed and  icon when the minimum pressure value is displayed. When the maximum or minimum pressure value is displayed, press  O-setting to restart the recording of the maximum and minimum pressure values recorded before.

(6) LCD backlight

In the pressure measurement mode, press  backlight button can open/close the screen back-light. After a certain period of time, Back-light will automatically shut down to reduce power consumption.

(7) Upper and lower limit electric contact settings (ASP-80R only)

Long press  the setting button, enter the password 201 after "- -" appears on the screen. Press  backlight button to adjust numbers, press  Setting button to move the cursor position. After entering the password, press  O-setting to enter the menu. Use the  or  button to scroll through the menu, turn to the fifth item, when the screen displays "5-RE", press  O-setting to enter the upper and lower limit settings. First set the lower limit pressure, the  icon will appear on the screen. The numerical adjustment method is the same as password input. Note that when the cursor is on the first digit, you can adjust the \pm sign by adjusting the numbers with  backlight button, the vacuum negative pressure gauge needs to be adjusted to the "-" sign. An error may occur when adjusting the positive pressure range to the "-" sign. After setting the lower limit pressure, press  O-setting to continue setting the upper limit pressure, the  icon will appear on the screen. The upper and lower pressure limits must be within the instrument pressure range, and the upper limit value should be greater than the lower limit value. After all settings are completed, press  O-setting to save and return to the menu. Press  power button to exit the menu, return to measurement status.

5. Replace the battery.

ASP-80 is powered by 2pcs 1.5V AAA batteries, when the power is low, users can open the battery ASP-80

compartment and replace it, just pay attention to the positive and negative polarity of the battery when installing. When not used the gauge for a long time, please take the battery out of the battery compartment to

avoid damage to the gauge due to battery leakage.