



MANUAL APM 30





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■. Introduction


Thank you for purchasing the pressure measuring instrument from us. Please take a few minutes to browse through this user manual before you begin to operate the meter to ensure that you are fully familiarized with how best to operate the meter as accurately and safely as possible.

This meter is an absolute pressure measuring instrument. It is normally used to measure absolute pressure, e.g. for pressure compensation in velocity measurement in ducts, laboratories and production processes. Barometric measurements and height measurements between two points are also possible.

1.1 Precautions safety measures

To get the best service from this meter, please read this user's manual carefully and observe the detailed safety precautions strictly.

1.1.1 During use

1. This product is only applicable to measure the majority of non-corrosive gases and air-drying medium.
2. If the OL symbol will show on the LCD, it means the readings is outside the measuring range. Please keep to the permitted measuring range.
3. To measure the barometric pressure, the height above mean sea level must be set correctly. To measure the height between two points, the height above mean sea level at the starting point must be known and set correctly.
4. Never store the product together with solvents, acids or other aggressive substances.
5. When the battery voltage is under proper operation requirement, the  symbol will show on the LCD and the battery need to be replaced with new.

1.1.2 Maintaining the product

- Do not measure at a high temperature, high humidity places.
- When not using the instrument for a long time, please remove the battery and avoid storing in high temperature and high humidity.

■. Features

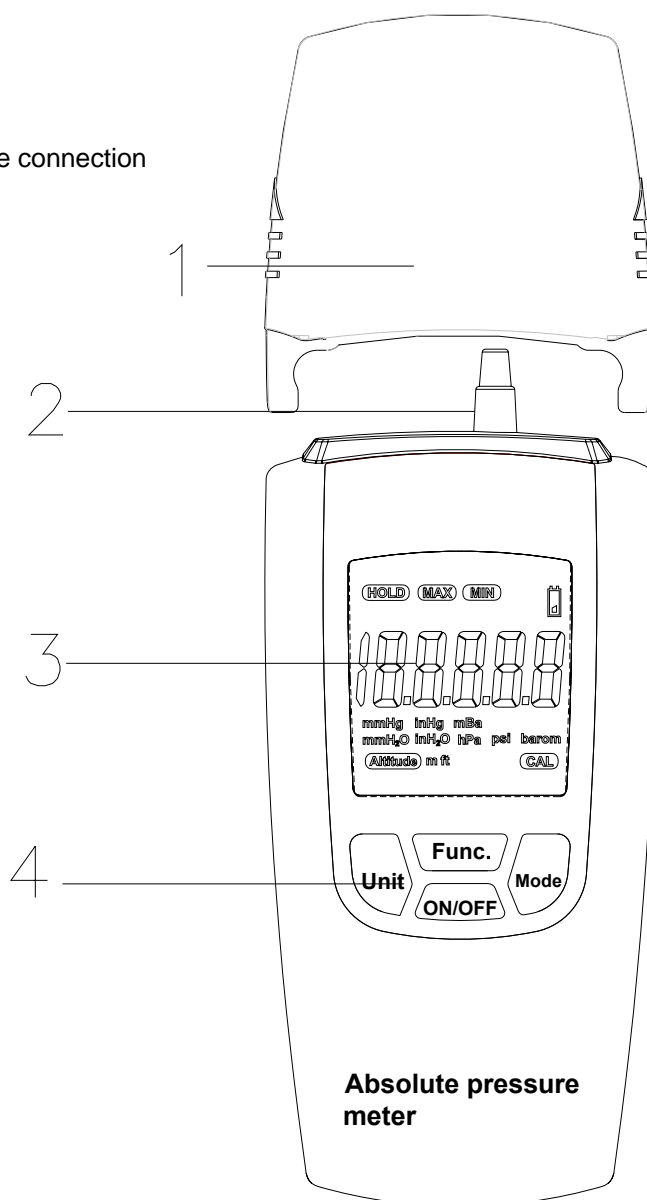
1. Display: 6 digits LCD Display
2. Parameters(absolute/barometric)
Pa, hPa, mbar, mmH₂O, mmHg, inHG, inH₂O, psi
3. Resolution: 0.1 hPa, 0.1 inH₂O
4. Range:
300...1,200 hPa,
120.4...481.8inH₂O
5. Accuracy:
±3.0hPa, ±1.2 inH₂O
Basic conditions 18.0°C~28.0°C, Humidity<80%
6. Sample rate: 1 time /sec
7. auto power off: about 20 minutes
8. low battery indicator
9. Operating environment:
0°C ~ 50 °C(32°F~122°F) 0 ~ 80%RH

- 10. Storage environment:
-20°C ~ 60°C(-4°F~140°F) 0 ~ 80%RH
- 11. Dimension and Weight:
121(L)x60(W)x30(H)mm, about 180g
- 12. Accessories:
DC1.5V (AAA) x 3pcs
String x 1pcs
Plastic box x 1pcs
Users manual x 1pcs

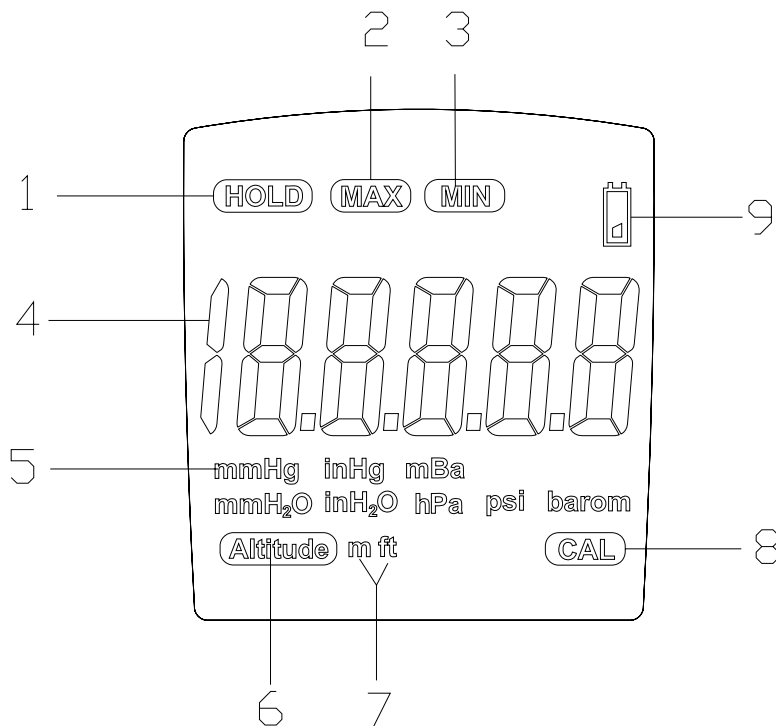
■. Names of parts

Instrument Familiarization

- 1. Sensor cover
- 2. Absolute pressure sensor nipple connection
- 3. LCD display
- 4. Function key



● LCD Display



Number of Order	Symbol	Functions
1		Indicating it is now in the data-holding mode
2		Indicating the display value being the maximum value(MAX)
3		Indicating the display value being the minimum value(MIN)
4		measure values
5	mmHg, inHg, mBa mmH ₂ O, inH ₂ O, hPa, psi, barom	Pressure units
6		Altitude state
7	m, ft	Altitude units
8		Indicating the calibration mode
9		Indication low power of batteries. Batteries should be replaced.

The meaning of the symbols represented by the following table

■. Operation instruction

1. Please install new batteries on the meter .
 2. Connect the flexible hose of the measured object to the meter's nipple connection.
 3. Press the **ON/OFF** key to turn the power on.
 4. After power on, press the **Unit** key to select the needed units.
 5. When the reading has been stable, read the pressure value.
- * If you still need more operations, please see the description of keys instruction.

■. Keys instruction

1. ON/OFF key

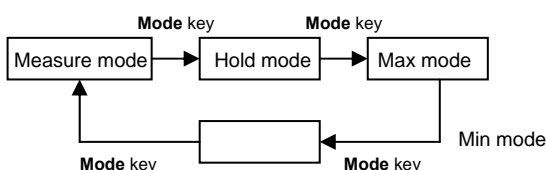
Press the key to turn the power ON and press the key once more to turn the power OFF.

2. Mode key

1) Mode set

Press the key can select the state of MAX MIN HOLD.

The cycle of views shows as following figure:



- Hold mode: Reading are held.
- Max mode: Maximum values since the instrument was last switched on or last reset.
- Min mode: Minimum values since the instrument was last switched on or last reset.

2) Auto power off set

When the meter is powered on, it is under auto power off mode. The meter will power itself off after 20 minutes if no key operation.

Cancelled auto power off function: press **Mode** key when power on until the LCD display **AP OFF**, then press the **ON/OFF** key to confirm the setting.

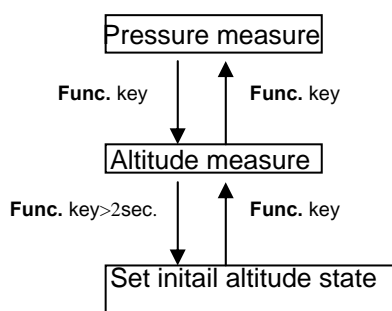
3. Func. key

1) Func. set

Press the key can shift the measurement state between pressure and relative altitude.

2) Altitude state setting

Under the state of measuring the relative altitude, press the **Func. key**>2sec. to enter the initial altitude setting. As shown in following figure:



When setting the initial altitude, the flashing bit is the current setting bit:

Mode key —increase the value of the current setting bit.

Unit key —confirm the current bit and then turn to the next.

Func. Key —store the setting and then return the state of measuring the relative altitude.

When the last bit has been confirmed, it will store the setting automatically and exit the setting state.

4. Unit key

1) Unit set

In pressure state—change different pressure units,

adjustable units: mmHg, pa, inHg, mBa, mmH₂O,
inH₂O, hpa, psi

In altitude state—change altitude units of meter or feet.

2) Back light control

If press the key >2sec. the back light will be turned on, Press the key once >2sec. the light will be turned off. If the back light is not closed within 60 seconds, it will be turned off automatically.

■. Maintenance

1. CLEANING INSTRUCTIONS


The meter may be wiped down with a wet sponge or cloth using a mild water based detergent or anti-bacterial soap and rinsed under a gentle stream of cold water.

NOTE:

This unit is not designed for complete submersion or washing in water.

2. BATTERY REPLACEMENT

Use the following procedure:

When the battery voltage drop below proper operation range the  symbol will appear on the LCD display and the battery need to be replaced.

- * Press the battery cover and towards arrowhead direction to open the battery cover.
- * Replace the battery with three new 1.5V batteries (AAA).
- * Replace the battery cover.

In this direction will find a vision of the measurement technique:
<http://www.industrial-needs.com/measuring-instruments.htm>

NOTE: "This instrument doesn't have ATEX protection, so it should not be used in potentially explosive atmospheres (powder, flammable gases)."