



## UNI-T UT366A Digital Manometer User Manual

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P/N:110401110446X  
UT366A Digital Manometer  
UserManual

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### Introduction

UT366A is an instrument for measuring gauge pressure and differential pressure. UT366A can measure P1/P2 pressure independently with LED indication. It can be widely used in industrial manufacturing, HVAC, plumbing and other industries. Combined with an optional pitot tube, UT366A can also measure wind speed.

### Accessories

- 1. Digital manometer..... 1pcs
- 2. Hose..... 1pcs
- 3. AAA batteries..... 3pcs

- 4. User manual .....1pcs
- 5. Carrying bag .....1pcs
- 6. Magnetic hook .....1pcs

## Specifications

- Units: kPa, mbar, bar, psi, mmHg, inH<sub>2</sub>O, inHg, Ozin<sup>2</sup>, kgcm<sup>2</sup>, ftH<sub>2</sub>O, mmH<sub>2</sub>O, hPa, m/s, fpm
- Pitot tube coefficient: 1
- Range:

|                                |                                   |
|--------------------------------|-----------------------------------|
| 0.00—±15.00 kPa                | 0.00—±34.80 Ozin <sup>2</sup>     |
| 0.0—±150.0 mbar                | 0.000-±0.152 kgcm <sup>2</sup>    |
| 0.000—±0.150 bar               | 0.000— ± 5.026 ftH <sub>2</sub> O |
| 0.000—±2.175 psi               | 0.0—±1531 mmH <sub>2</sub> O      |
| 0.0—±112.5 mmHg                | 0.0—±150.0 hPa                    |
| 0.00—±60.29 inH <sub>2</sub> O | 0.0-19999.9 m/s                   |
| 0.000—±4.429 inHg              | 0-199999 fpm                      |

- **Resolution:**

|                         |                          |
|-------------------------|--------------------------|
| 0.01 kPa                | u.01 Ozin <sup>2</sup>   |
| 0.1 mbar                | 0.001 kgcm <sup>2</sup>  |
| 0.001 bar               | 0.001 ftH <sub>2</sub> O |
| 0.001 psi               | 1mmH <sub>2</sub> O      |
| 0.1 mmHg                | 0.1 hPa                  |
| 0.01 inH <sub>2</sub> O | 0.1 m/s                  |
| 0.001 inHg              | 1 fpm                    |

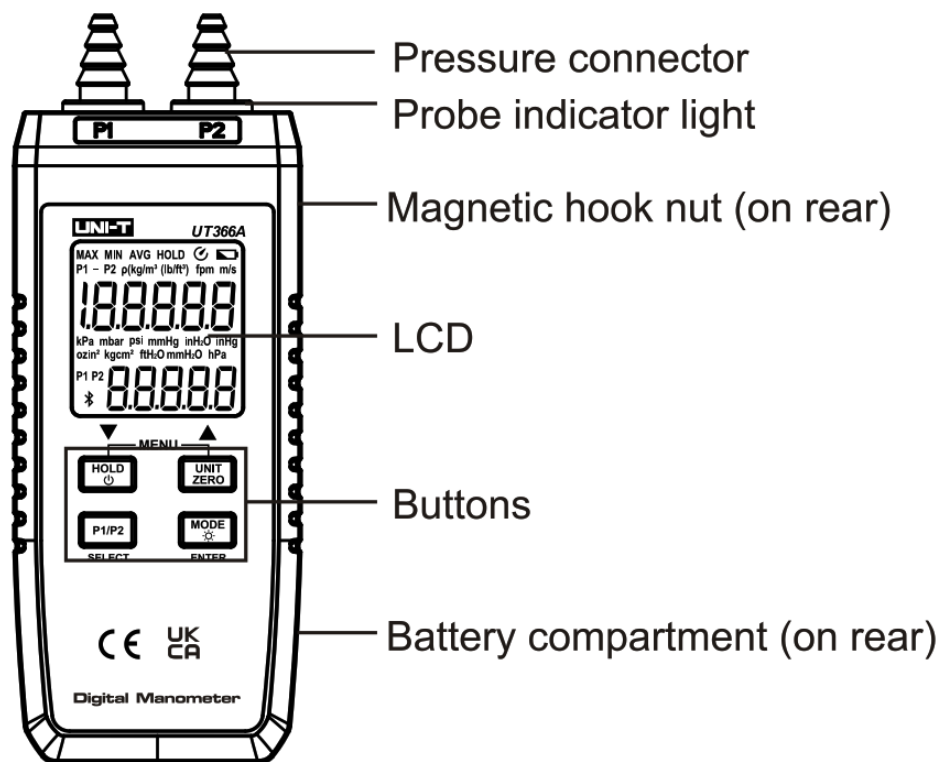
- Accuracy: ±0.5% FS@25°C
- Unit memory: When the product is turned on, its pressure unit defaults to the unit when it was turned off last time.
- Auto power off: When the meter enables this function, it will power off automatically if no button press occurs for 5 minutes.
- Low battery indication: When the battery power is less than 3.7V, a low battery indicator will appear.
- Batteries: AAA 1.5V\* 3pcs
- Power consumption:
  - Power off: < 10uA;
  - Power on: < 10mA;
  - Power on and backlight on: < 15mA;
  - Power on and one indicator light on: < 15mA;
  - Power on and two indicator lights on < 20mA; Power on, backlight and one indicator light on: < 20mA;
  - Power on, backlight and two indicator lights on: < 25nnA.
- **Battery life:**
  - Power on: > 50h;

Power on and backlight on: > 30h;  
 Power on and one indicator light on: > 30h;  
 Power on and two indicator lights on: > 25h;  
 Power on, backlight and one indicator light on> 25h;  
 Power on, backlight, and two indicator lights on> 20h.

• **Environmental requirements:**



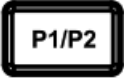

Operating: 0-50°C C85%RH;  
 storage: 10-60°C –75(YoRH.

**Product Structure**



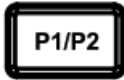



**Buttons**

**1. Function**

|                                                                                     | Long press                         | Short press     | Short press in the menu |
|-------------------------------------------------------------------------------------|------------------------------------|-----------------|-------------------------|
|  | Power on/off                       | Data hold       | –                       |
|  | Data zero                          | Unit conversion | +                       |
|  | Turn on/off probe indicator lights | P1/P2 selection | Select                  |
|  | Turn on/ off the backlight         | Max/Min/Avg     | Enter                   |

## 2. Button combination

|                                                                                                                                                                       |                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
|  +  | Short press: enter/exit the setting menu |
|  +  | Short press: view version NO.            |

## Operation

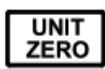
### Turn on/off the meter:






Long press 



### Data hold:

Short press 


### Unit conversion:

Short press  to switch between selectable units: kPa, mbar, bar, psi, mmHg, inH 20, inHg, Ozin2, kgcm2, ftH2 O, mmH2O, hPa, m/s ,fpm.


Among them, m/s and fpm are wind speed units. To switch between these two units, short press   and  enter the setting menu, the press  is to enter the wind speed unit setting mode (as shown in the figure), and then short press  to switch between m/s and fpm. Press

 and  again to exit the setting menu. Notes: Wind speed needs to be measured with a pitot tube. Please purchase it separately if necessary.

### Data zero:

The meter can start to operate about 5 seconds after being turned on. Before the hose is connected, if the value displayed on the screen is not 0, users need to long press  to zero the data. P1 and P2 will be zeroed at the same time.

### Switch channel:

The default channel when turning on the meter is P1-P2 (the difference between P1 and P2 channels). Short press  to step through P1-P2 > P1-P2/P1 > P1-P2/P2 > P1/P2.

### Turn on/off probe indicator lights:

Long press 







### Max/Min/Avg selection:

Short press 

### Turn on/off the backlight:

Long press 






### Turn on/off the auto power-off function:




 Short press  and  to enter the setting menu. Short press IS to tum on/off the APO function. Short press  and  again to exit the setting menu. If the APO function is turned on, the icon  will show on the screen. The meter will power off automatically if no button press occurs for 5 minutes.

### Air density setting:

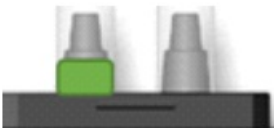
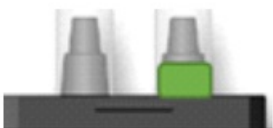

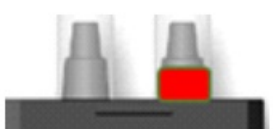


Air density setting is related to the wind speed measurement. In general, the air density is 1.293kg/m<sup>3</sup>. If users need to measure the flow rate of other gases, they can set the corresponding

density. Short press  and  to enter the setting 11 menu. Press  twice to set the air density. Short press  or press  to select the next digit.

Short press  and  again or short press  once to exit the setting menu.


### Probe Indicator Lights

|            |                                                                                                |            |                                                                                                  |
|------------|------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------|
| <b>P1+</b> | <br>Green Off | <b>P2+</b> | <br>Off Green |
| <b>P1-</b> | <br>Red Off   | <b>P2-</b> | <br>Off Red   |

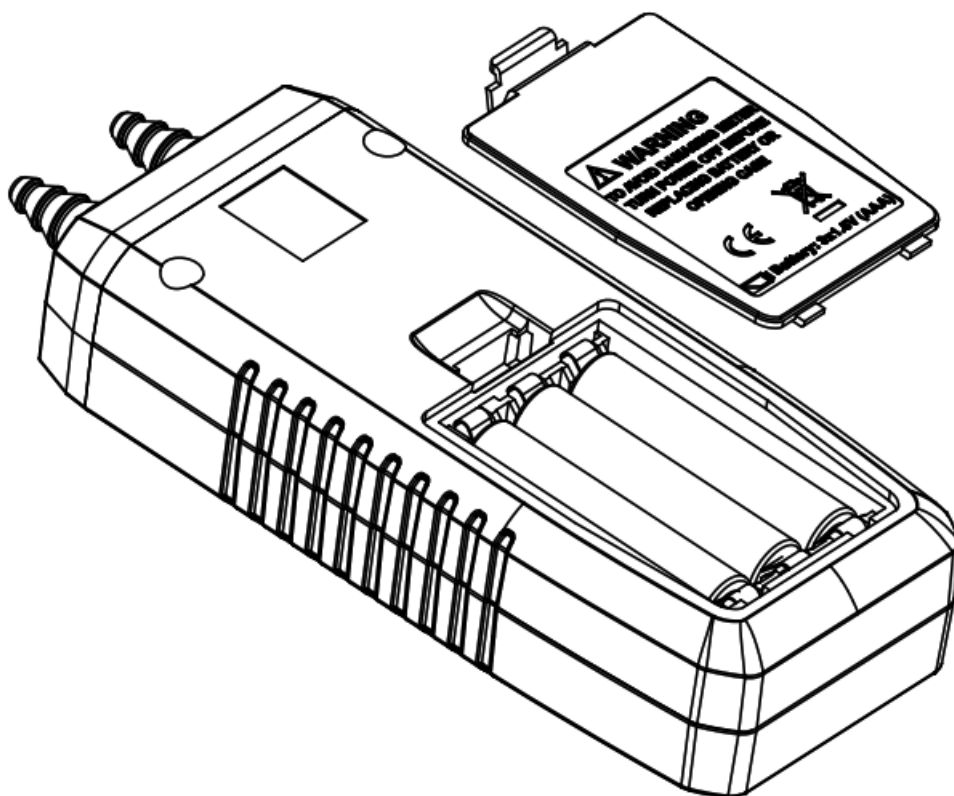
**Note:** P1+ means the air pressure value is positive (the indicator light is green). P1- means the air pressure value is negative (the indicator light is red). Long press the “P1/P2” button to turn on/off the indicator lights. In the P1-P2 channel, the indicator lights are off by default, and cannot be turned on.

### Maintenance and Repair

- Replace batteries:

When the icon  is displayed on the screen, follow the steps below to replace the batteries.

1. Remove the battery cover.
2. Take out the old batteries and put in three new 1.5V AAA batteries. Pay attention to the battery polarity.
3. Close the battery cover.



- Clean the housing: Clean the housing with a damp cloth. Please do not use corrosive detergents or solutions for cleaning in that they are corrosive to the housing, especially to the LCD.
- Please take out the batteries if the meter is not used for a long time to prevent battery leakage from seriously damaging the meter.
- Do not disassemble this meter or change the internal.

## Troubleshooting

- “OL or -OL”: The reading exceeds the measurement range. Please measure within the specified range
- “Lo”: The wind speed reading is too low. Check whether the two ends of the pitot tube are connected reversely.
- “2 flashes when measuring wind speed: The data should be zeroed. Otherwise there will be measurement errors.
- The wind speed unit flashes when pressing the “P1/P2” button: The P1-P2 channel is used for wind speed measurement by default, and cannot be changed.
- “Err: Ambient temperature compensation NTC has errors.

# UNI-T®

**UNI-TREND TECHNOLOGY (CHINA) CO., LTD.**

No.6, Gong Ye Bei 1st Road,  
Songshan Lake National High-Tech Industrial  
Development Zone, Dongguan City,  
Guangdong Province, China

## Documents / Resources



# [UNI-T UT366A Digital Manometer](#) [pdf] User Manual

## UT366A, Digital Manometer, UT366A Digital Manometer