

User's Manual

HTC Manometer



Please read this user's manual thoroughly before using this unit and keep it properly for your future reference.

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1. Safety

Read the following safety information carefully before attempting to operate or service the meter.

Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

Environment conditions:

- 1) $RH \leq 90\%$ (Non-Condensation)
- 2) Operating Temperature-0 ~ 40°C

Maintenance and cleaning

- 1) Repairs or servicing not covered in this manual should only be performed by qualified personnel.
- 2) Wipe the unit with a dry soft cloth. Do not use solvents or detergents on this instrument.

Safety Symbol



2. Introduction

This product is aimed to measure different pressure values, here are some units for Choice: inH₂O, psi ,bar, mbar , kPa, inHg, mmHg ,ozin² ,ftH₂O, cmH₂O ,kgcm².equipped with simple Tube connection. It is widely used in measurement of ventilation and air conditioning system, clean room or any gas pressure system troubleshooting .Easy operation and clear reading.

3. Error Warning

When internal diagnostic test fails, an error message will appear on the LCD display.

error1 :  max pressure

error2 :  below min pressure

4. Specification

unit	PM-6102		PM-6105		PM-6115	
	Range	Resolution	Range	Resolution	Range	Resolution
inH2O	±55.40	0.01	±138	0.1	±415.2	0.1
Psi	±2.000	0.001	±5.000	0.001	±15.00	0.01
Mbar	±137.8	0.1	±344.7	0.1	±1034	1
KPa	±13.79	0.01	±34.47	0.01	±103.4	0.1
inHg	±0.407	0.001	±1.018	0.001	±30.54	0.01
mmHg	±103.4	0.1	±258.5	0.1	±775.7	0.1
ozin²	±32.00	0.01	±80	1	±240.0	0.1
ftH2O	±4.612	0.001	±11.53	0.01	±34.60	0.01
cmH2O	±140.6	0.1	±351.5	0.1	±1055	1
kgcm²	±0.140	0.001	±0.351	0.001	±1.055	0.001
bar	±0.137	0.001	±0.344	0.001	±1.034	0.001
Maximum Pressure Psi		10 Psi	20 Psi		100 Psi	
Accuracy		±0.3%FS				
Linearity/Hysteresis		±0.1%FS				
Repeatability		±0.25%FS				
Pressure connector		1/8" (3.18mm) quick connector				
Working temperature		0 ~ 40°C/32 ~ 104°F				
Storage temperature		-10 ~ 60°C/14 ~ 140°F				
Over range indication		ERR1 or ERR2				
Work current		9V battery				

unit	PM-6130		PM-6175	
	Range	Resolution	Resolution	Range
inH2O	±830	1	±2078	1
Psi	±30.00	0.01	±75.00	0.01
Mbar	±2608	1	±5168	1
KPa	±206.8	0.1	±517.1	0.1
inHg	±61.08	0.01	±15.00	0.01
mmHg	±1551	1	±3878	1
ozin²	±480.0	0.1	±1200	0.1
ftH2O	±69.2	0.01	±173.0	0.01
cmH2O	±2109	1	±5272	1
kgcm²	±2.109	0.001	±5.250	0.001
bar	±2.068	0.001	±5.138	0.001
Maximum Pressure Psi		100Psi		100Psi
accuracy		±0.3%FS		
Linearity/Hysteresis		±0.1%FS		
Repeatability		±0.25%FS		
Pressure connector		1/8" (3.18mm) quick connector		
Working temperature		0 ~ 40°C/32 ~ 104°F		
Storage temperature		-10 ~ 60°C/14 ~ 140°F		
Over range indication		ERR1 or ERR2		
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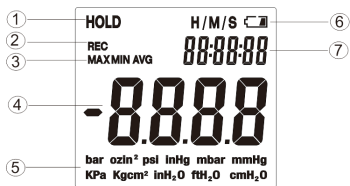
5. Meter Description

- ① Air intake
- ② LCD Display
- ③ Power key
- ④ Backlight key
- ⑤ Unit key
- ⑥ Hold button
- ⑦ record key



6. LCD display

- ① Data record
- ② Record mode
- ③ Max Min, Avg
- ④ Readings
- ⑤ Unit
- ⑥ Low battery indication
- ⑦ Memory time



7. Operation steps

7.1 Open battery cover and install a 9-volt battery in the battery compartment.

Press power key to start measuring

7.2 press UNITS key , choosing proper unit

7.3 connect Tube

7.4 read the testing values on LCD display

Note : when the meter is on, no gas pressure input, the meter will not necessarily be zero, you need to reset by yourself.

8. Buttons function

8.1  Key ; it can turn on and turn off the meter , press " " , open manometer, the screen will display about 2 seconds, and then enter normal measurement model.

8.2  Key ; after power on the meter , pressing this button can turn on and turn off the backlight.

8.3  Key ; in measurement mode , press " " , it can review Max ,Min, Avg values. In this mode, other button functions are locked not operated. Press



for three seconds , the meter exits record model.



8.4 key ; after power on the meter , press "UNITS" , it can convert the units of measurement : bar,mmHg,Ozin2,Kgcm2,psi,inH2O,Kpa,ft H2O,inHg,cmH2O,mbar.



8.5 key ;



8.5.1 After the meter power on , press "HOLD" button once , the screen will



be locked, press "HOLD" again , it will cancel this function.



8.5.2 After power on the meter ,no gas pressure input ,press "HOLD" for three seconds , LCD screen display "----" , the meter reset.

8.6 Automatically power on/off ; the meter will automatically turn off after approx. 25 minutes of inactivity. It can save battery' s life. If you do not want to



turn off, first press "HOLD",then press "Power" ," ON "will appear on the LCD display, it indicates that power off function is disabled.

9. Notes

1. Do not use it in high temperature and humidity.
2. Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.
3. Replace new batteries when the low battery icon "  " appears.

10. Accessories

- ① Manual
- ② Canvas bag
- ③ 6F22 9V battery
- ④ $\phi 4.5\text{mm}$ mental gas mouth 2 PCS
- ⑤ $\phi 5.0\text{mm} \times 30\text{mm}$ soft Tube 2PCS
- ⑥ $\phi 5.0\text{mm} \times 30\text{mm}$ hard Tube 2PCS

www.htcinstrument.com

