



บริษัท เอดีดี เฟอร์เนส จำกัด

ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258

<https://www.add-furnace.com> E-mail: sales@add-furnace.com

Differential Pressure Meter User Manual

Model:AS510





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Introduction


AS510 uses imported air pressure sensor, provide high accuracy, temperature compensated for accurate measurement values.

This unit can be applied chemical industry, electrical industry, nuclear industry to measure the difference of air pressure.

Safety notice

1. About the user manual.

a) Before use this differential air pressure meter, please carefully read through this user manual, and operate it as well.

b) Please pay attention when the warning symbol “” is appear on the LCD display

2. To prevent damage the unit and human body of the user.

a) To use it with in the range of the specified value. Don't use too much force when insert the tube to the unit inlet.

b) Don't place the unit under acid solvent or other Corrosive solvent environment

c) Please follow what instruction manual mentioned method to clean and maintenance the unit.

d) For safety, please use original part and accessories



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1.Product specification

1.1 Technical specifications

Measureing rang	0~100hpa/0~45.15 inH ² O
Resolution	0.1 hpa /0.01 inH ² O
Unit	Pa, hPa, mbar, mmH \emptyset , mmHg,inHg, inH \emptyset , psi, m/s, fp
Accuracy	± 0.03 hPa(0~0.30hPa) ± 0.05 hPa(0.31~1.0hPa) $\pm (1.5\% + 0.1$ hPa) remaining range ± 0.01 inH \emptyset (0.00~0.12inH \emptyset) ± 0.02 inH \emptyset (0.13~0.40inH \emptyset) $\pm (1.5\% + 0.4$ inH \emptyset) remaining range
Measuring speed	0.5 sec

1.2 General specifications

Operating environment	0°C~50°C/32°F~122°F
Storage environment	-20°C~60°C/~4°F~140°F
Operating voltage	3x1.5V AAA batteries
Battery life	50 hour (without backlight)
Size	124,8mm*49.8mm*25.6mm
Weight	71.5g



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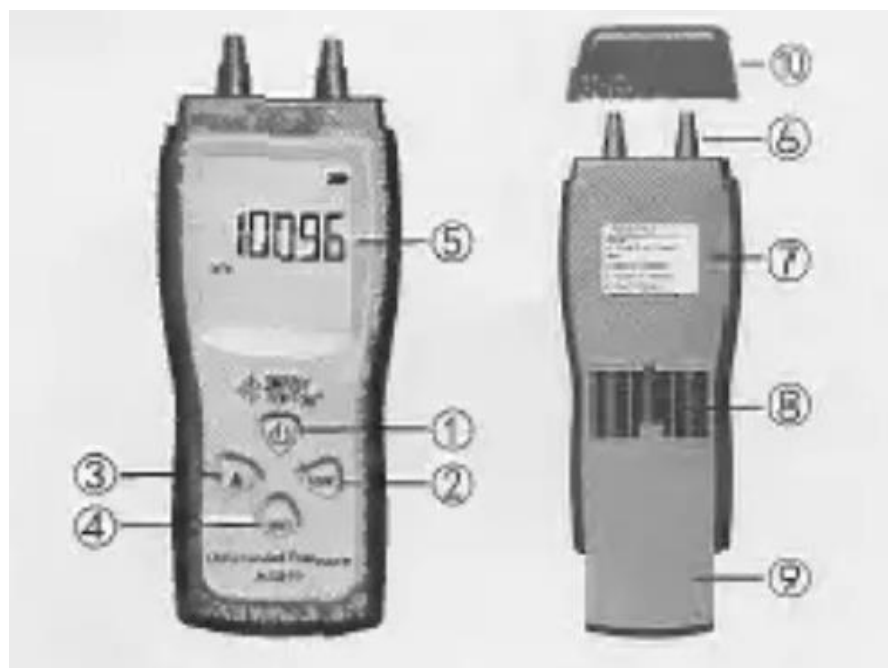
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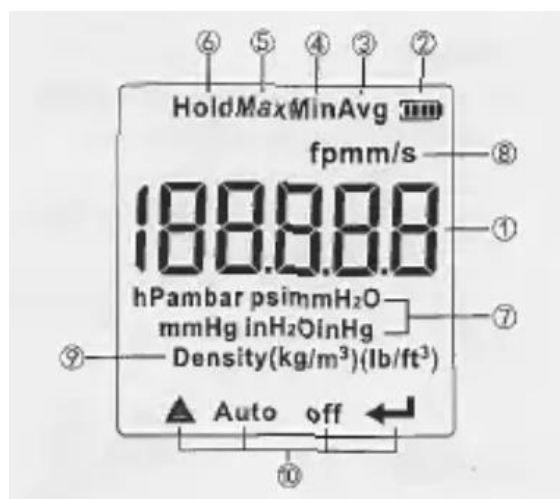
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2. Product outline



- ① Power on/off and escape button
- ② Mode selection and confirm button
- ③ Select button
- ④ Unit selection button
- ⑤ LCD display
- ⑥ Measure inlet
- ⑦ Back model Plate
- ⑧ Battery compartment
- ⑨ Battery door
- ⑩ Protection cover

3.LCD display








- ① Measure value display area
- ② Battery empty/full symbol
- ③ Average symbol
- ④ Minimum symbol
- ⑤ Maximum symbol
- ⑥ Value hold symbol
- ⑦ Pressure units
- ⑧ Air flow speed
- ⑨ Air Density unit
- ⑩ Setup mode symbol

4.DETAIL OPERATION DESCRIPTION


4.1 check the unit

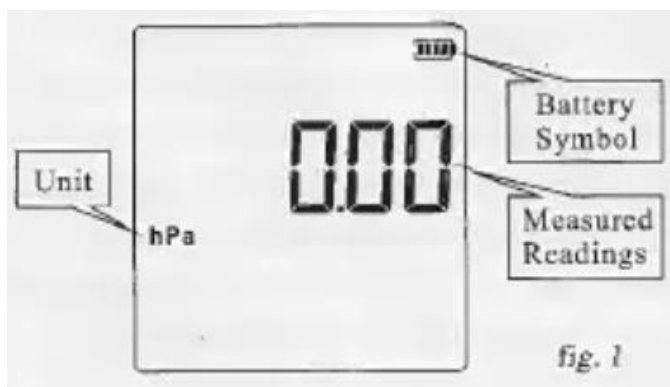
4.1.1 Turning On and off the unit: Press “” to turn on the unit, then it goes to measurement mode: if you want to turn it off, press “” until led no display, then it “off”.

4.1.2 Back light on/off: Under measurement mode ,press “” once will turn on the back light, if no any operation of the keys, the back light will turn off after 30 second.

4.2 Preparation before measurement take.

4.2.1 Slide off the battery door ,place AAA size battery x 3 pieces in correct polarity.

4.2.2 Press “” to turn on the unit, then it goes to measurement mode, the lcd display showed the last measured unit (e.g.hPa), the measured differential air pressure value and battery empty/full symbol, as following fig. 1



Remarks: if you found the battery indication show “” or “”, please change the batteries, otherwise will affect the accuracy of the unit.



4.2.3 Selectable units.

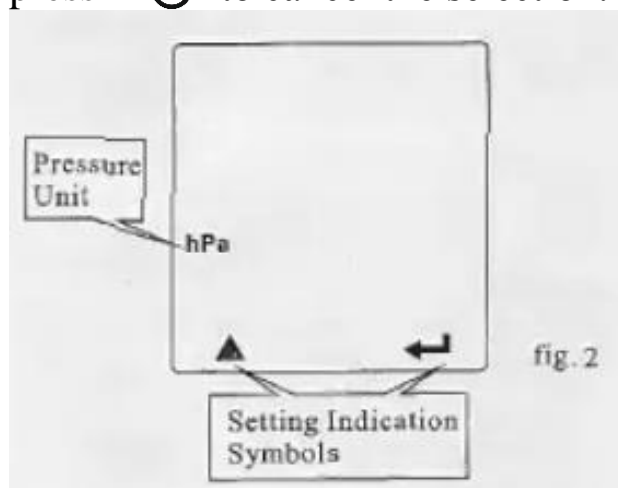
4.2.3.1 Air pressure units: hPa , mbar ,Pa , mmH²O,inHg,mmHG,psi,m/s,fpm.

4.2.3.2 Air flow unit :ms,fpm

4.2.3.3 Density units: Kg/m³,Ib.fh3.

4.3 Setup the measure

4.3.1 Setup the air pressure units: After turn on the instrument, press “UNIT” button once, instrument will go to “units” selection interface, LCD will display “▲”, “←” and blinking (hPa) as figure.2 showed (the blinking unit is the last measured unit or mass setup unit), Press “▲”button to selected your desired air pressure unit,then press [MODE] button to confirm the selection, press “⏻” to cancel the selection.



4.3.2) Setup the air flow unit: After turn on the instrument ,press “UNIT” button once,instrument will go to “unit” selection step, LCD will display “▲”, “←” and blinking (kPa) as fig.2 showed(the blinking unit is the last measured unit or mass setup unit). Press “▲” button to selected your desired air flow unit,then press [MODE] button to confirm the selection ,press “⏻” to cancel the selection as fig.3 showed.