

**Attention: Before operating HC-2 Differential Pressure Meter (DPM), user must read this operating manual carefully, please!
Keeping the manual for reference.**

HC-2 Differential Pressure Meter (DPM)

OPERATING MANUAL

ISO9001: 2000 CERTIFIED

**SUZHOU CLEANING TECH. RESEARCH INSTITUTE
BAISHEN TECHNOLOGY (SUZHOU) CO., LTD.**

Welcome to use HC-2 Differential Pressure Meter (DPM), thank you warmly entering into our company's consumer team!

1. General Description

Differential Pressure Meter (DPM) is applicable for measurement of air differential pressure; it is widely used in pharmaceuticals and micro-electronics industry for measurement and display of environmental differential pressure. DPM is embedded in the outside of the cleaning room wall. Its display value is clear and audio-visual, it adopts import thermal bridge sensor component, so has high measurement accuracy.

2. Operating ambient condition

Temperature: 0~50°C

Humidity 0~85% RH(Relative Humidity)

3. Measurement range and accuracy

0~50Pa, relative error $\pm 3\%$ FS

Response time 60 ms (max).

4. Electric Power Supply And Power Consumption

AC 220 \pm 22V; 50 \pm 5Hz; Single phase

Power consumption is less than 1W.

5. Mounting Holes Dimension

144 \times 95mm(rectangular); 43mm deep.

6. Operating Concept

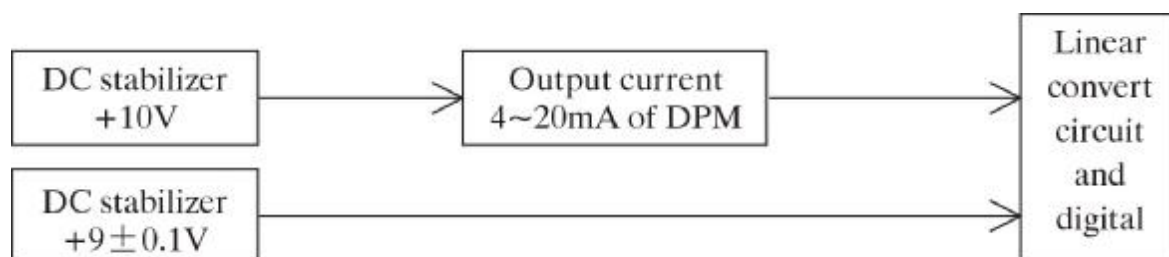


Fig 1, Operating concept frame of DPM

6.1 Operating concept of DPM is as Fig 1.

6.2 Brief concept of DPM:

The DC+10V stabilizer supplies DPM with current and its output current 4~20mA is linearly converted into digital display.

7. Operating Procedure

After connection of DPM, press power button once, DPM is turned-on; press power button once again, DPM is turned-off.

8. Caution Of DPM Order And Installation

AC 220V power supply is applicable for usage of DPM.

There're two option types of power supply terminals or plugs for customer's selection:

8.1 If there is AC power supply, which is prefabricated and embedded in the cleaning room wall, the covered terminals from the sides of DPM are recommended for connection with AC power supply.

8.2 If there is no AC power supply in the wall, common-used plugs from left cover side of DPM are recommended for connection with AC power supply.

When customer orders DPM should designate which terminals or plugs can be adopted.

A high picking nozzle is located in the rear cover of DPM, it is inserted in a soft tube of 4~5mm inner diameter, and retains 50mm long left inside of the cleaning room for picking atmospheric pressure in the room. The seam between picking nozzle and the wall should be air-tightness with seal glue, after DPM installation 4 sets of M4 self tapped screws are used for fixing DPM with the wall.

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