

DPG600 SERIES DIFFERENTIAL PRESSURE TRANSMITTER

FEATURES

- ◎ MEMS micro pressure chip
- ◎ High accuracy and stable
- ◎ High overload performance
- ◎ Optional 4-digit LCD display
- ◎ Designed for high accuracy pressure and level measurement



INTRODUCTION

The DPG600 series micro differential pressure transmitter utilizes a silicon MEMS micro pressure chip. After undergoing temperature compensation, linear compensation, signal amplification, V/I conversion, surge and reverse polarity protection, and other signal processing, the transmitter outputs a standard 4–20mA industrial signal. With all digital calibration and no movable potentiometers, the DPG600 series offers improved temperature drift performance and enhanced stability.

This series incorporates two isolation methods. For pressure ranges below 5kPa, the chip is protected by elastic silicon gel, making it ideal for measuring the differential pressure of non-corrosive gases. For pressures of 5kPa and above, the chip is protected by a 316L stainless steel isolation diaphragm filled with silicone oil, making it suitable for measuring non-corrosive mediums in stainless steel environments.

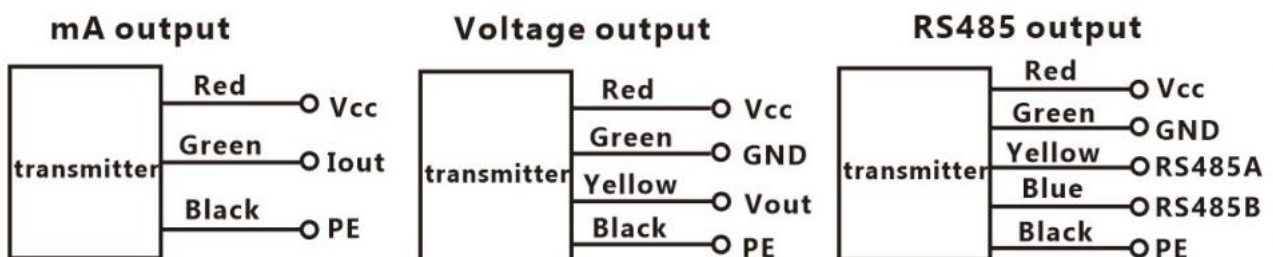
APPLICATION

This series of transmitters are used in petroleum, chemical, metallurgy, electric power, textile, electronics, medicine, food, environmental protection and other fields, and more widely used in HVAC, purification plant and boiler automatic detection.

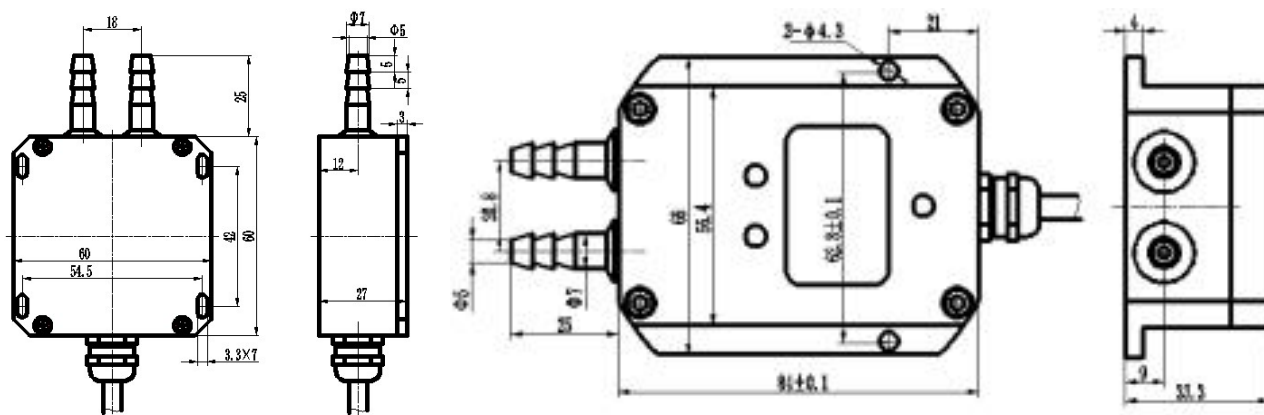
SPECIFICATIONS

Pressure type	Differential pressure
Pressure range	0Pa~100Pa...500Pa...1kPa...100kPa
Power supply	10VDC ~ 30VDC (Standard 24VDC)
Output signal	4mA ~ 20mA, RS485, I ² C, 0V~10V (Others on request)
Overload pressure	≤ 200%
Static pressure	≤ 200kPa
Response time	≤ 1ms(10%~90%)
Media temperature	-40°C ~85°C
Accuracy	0.25%FS, 0.5%FS, 1.0%FS
Nonlinear	≤ 0.2%FS, ≤ 0.4%FS, ≤ 0.8%FS
Hysteresis, repeatability	≤ 0.05%FS, ≤ 0.1%FS, ≤ 0.2%FS
Zero and sensitivity temperature drift	≤ 0.025%FS, ≤ 0.05%FS, ≤ 0.08%FS
Diaphragm material	Silicon gel /316L membrane
Shell material	304、Aluminum
Interface	304 stainless steel Φ 7 tower nozzle
Measuring medium	< 5KPa: Non-corrosive gas ≥ 5KPa: Fluid compatible with 304 and 316L
Protection	IP66

ELECTRICAL CONNECTION



DRAWING



ORDER FORMAT

DPG600 - 1KPa - MA - D

Pressure range	Code
0~XKPa	XKPa

Code	Display
Null	No display
D	4-LCD display

Code	Output Signal
MA	4~20mA
V1	0~10V
R4	RS485
I2	I ² C protocol