

MD-G105 SERIES LOW POWER CONSUMPTION PRESSURE TRANSMITTER

TECHNICAL CHARACTERISTICS:

- ✓ Low power consumption design, 3.3V or 5V power supply
- ✓ 0.5~2.5V or RS485 output optional
- ✓ 316L stainless steel diaphragm, good impact resistance
- ✓ Laser welding process to prevent leakage, IP68 waterproof design



MD-G105 series the low power consumption pressure transmitter is designed to meet the needs of battery-powered applications. It adopts an ultra-low-power design on the circuit, so that the product can still guarantee excellent accuracy and stability at a power supply of 3.3~5V and <2mA operating current.

The pressure transmitter supports intermittent power supply, and the stabilization time is better than 50ms, which is convenient for low power management of sensor power

The sensor adopts 304 stainless steel and laser welding technology, IP68 waterproof design, which makes it have better shock resistance and waterproof performance. The product can work normally even at an ambient temperature of -40°C without risk of leakage.

This series of pressure sensors are particularly suitable for battery-powered pressure measurement, as fire pipe network, fire hydrants, water supply pipes and heating pipes.

APPLICATIONS:

- ◇ Fire pipe network
- ◇ Water supply network
- ◇ Fire hydrant
- ◇ Heating pipe network

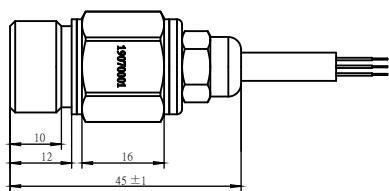
TECHNICAL PARAMETERS:

Range	0~0.1...0.6...1.0...1.6...2.5...4...6...10...16...100MPa
Overload pressure	< 10MPa 200% ; ≥ 10MPa 150%
Working current	≤ 2mA
Stable time	≤ 50ms
Accuracy	1.0%FS 0.5%FS
Long-term stability	0.25%FS/year
Zero temperature drift	Typical: ± 0.03%FS/°C
Sensitivity temperature drift	Typical: ± 0.03%FS/°C
Power Supply	3.3V 5V
Output	0.5~2.5V(3 wire) , RS485(4 wire)
Operation temperature	-40~80°C
Compensation temperature	-10~70°C
Storage temperature	-40~100°C
Electrical protection	Anti-reverse protection, anti-frequency interference design
IP rating	IP65(DIN) IP68(cable)
Measurement medium	Gas or liquid incompatible with 316L stainless steel
Connection	M20*1.5,G1/2,G1/4 (customized)
Shell material	304SS
Certificate	CE , Explosion-proof Certificate

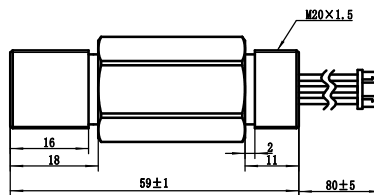


DIMENSION:

UNIT:mm



Straight out



Terminal type

OUTLET DEFINITION:

0.5-2.5V/3.3V	Power supply+	Red
	Power supply-	Black
	Output+	Green
RS485/3.3V	Power supply+	Red
	Power supply-	Black
	Output+	Green
	Output-	White

Straight out

0.5-2.5V/3.3V	Power supply+	Red
	Power supply-	Blue
	Output+	Yellow
*2.54 spacing terminals		

Terminal type

SELECTION GUIDE:
MD-G105 - 10b - 1 - R - P0 - M20 - A - T1
Model:

 G105
(Low power consumption)

Range:

 X b(0-X bar)
 X M(0-X MPa)
 X k (0-X kPa)
 X P(0-X PSI)

Accuracy:

 1 (0.5% FS)
 6 (1% FS)

Output:

 R (RS485)
 V4 (0.5-2.5V)

Measurement temperature:

T1 (-40~+80°C)

Electric connection:

 B (Straight out)
 C (Terminal type)

Screw thread:

 M20(M20*1.5) G14 (G1/4)
 G12(G1/2) N12(NPT1/2)
 N14(NPT1/4) M9(Customized)

Power supply:

P0(3.3V) P1(5V)

