

Micro Differential Pressure Transmitter

Model PY300

Applications

- Dust collector/ Boiler negative pressure
- Velocity measurement/ Leak detection
- Clean room/ HVAC
- Power plant air pressure/ Damper control

Special features

- Measuring ranges : -2.5 ...0... 100 mbar
- Accuracy: up to 0.5 % F.S
- Can be used for differential pressure, pressure, negative pressure, positive and negative pressure measurements
- LED Digital Field Indicator Gauge Optional
- Open Air Installation, IP65 Protection Rating

Description

PY 300 Micro Differential Pressure Transmitter is characterized by low range, high stability, high accuracy and easy to install and use. It is mainly used for air micro differential pressure measurement in HVAC, clean room, negative pressure of boiler, HVAC, air velocity measurement, leakage detection, clean room, air pressure of power plant, dust collector, and damper control.



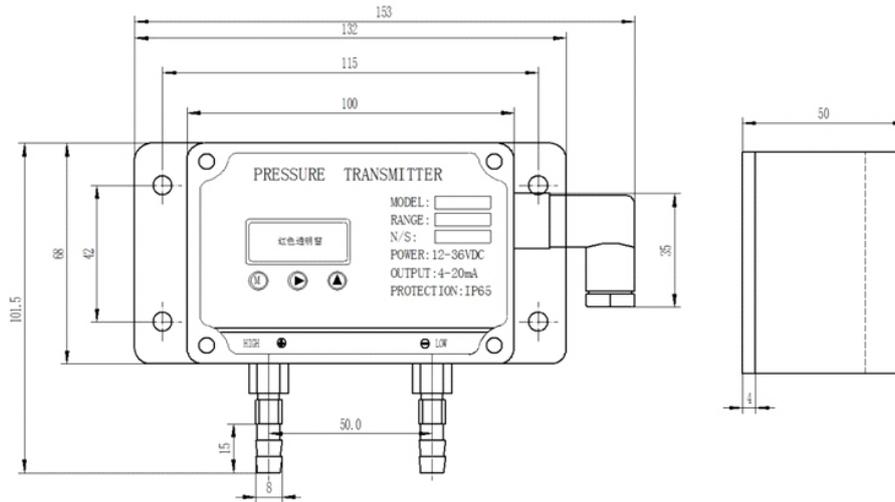
PY 300 Pressure Transmitter

- Measurement of humid, turbid air
- Adjustable filter coefficient, less affected by dynamic pressure
- Up to 10 times higher overload capacity
- Unidirectional or bidirectional differential pressure measurement available

Specifications

Basic information	
Pressure types	
Pressure ranges	Measurement method and range depend on the applicability of the sensor. Do not exceed the upper and lower measurement limits of the sensor when the range is migrated. Minimum:0~100Pa Maximum:0~100KPa
Accuracy	<ul style="list-style-type: none"> ■ better than 0.2% when the range is >35kPa; ■ better than 0.5% when the range is 1kPa~35kPa; ■ Better than 1.0% for ranges <1kPa;
Start-up time	2 seconds, no need to warm up
Long-term stability	±0.8% F.S/year
Temperature coefficient	0.3% /10°C (within -40~85°C, the zero point and the range combined)
Power supply	10~36VDC
Analog output	<ul style="list-style-type: none"> ■ 4~20mA DC (Load resistance ≤750Ω) ■ 0~10 mA DC (Load resistance ≤1.5KΩ) ■ 1~5V DC (Load resistance ≥250K) ■ 0~5V DC (Load resistance ≥250K)
Overpressure	5bar or 3×FS, whichever is smaller
Parameter setting	Panel touch key digital setting, parameter setting value is permanently saved after power failure, parameter setting value password locking
Units	
Pressure	bar ,mbar, Pa, kPa, MPa, PSI, kg/cm ² , mmH ₂ O, mmHg, inHg
Display	
Type	LED, 4 red digits
Functions	Pressure Measurement, Overpressure Indication 120 % of Full Scale Pressure (F.S)
electrical connection	Hirschmann connector, waterproof connector optional
Process connection	
Thread	Ø8 Pagoda Fitting
Material	Brass
Housing	
Dimensions	Ø 153 mm, D=50 mm H=101mm with protection cap
protective cover	Gray Silicone Protective Case
Ambient conditions	-20...70°C with air humidity ≤95%r.h.
Weight	250 g

Overall dimensions(mm)



Measuring ranges,differential pressure

Overview pressure ranges				
Type	pressure ranges(mbar)	Accuracy (± of full scale value)	media	Burst Pressure
DP2.5	-2.5...0...2.5	0.5(1)	Gas	5X
DP 10	-10...0...10	0.5(1)	Gas	4X
DP 20	-20...0...25	0.5(1)	Gas	3X
DP 30	-30...0...30	0.5(1)	Gas	4X
DP 50	-50...0...50	0.5(1)	Gas	4X
DP 70	-70...0...70	0.5(1)	Gas	4X
DP 100	-100...0...100	0.5(1)	Gas	3X

Order code					
Model	Accuracy	Pressure ranges	Unit	Output	Process connection
PY 300	A050(0.5%F.S) A100(1%F.S)	Table of reference measuring ranges	bar psi inH2O kg/cm ² kPa mbar mmHg mmH2O inHg Pa	A: 4~20mA DC B: 0~10 mA DC C: 1~5V DC D: 0~5V DC	Ø8 Pagoda Fitting Other
Example order number PY301-A050-DP10(-10...10)mbar-A-N- Ø8 Pagoda Fitting PY 301 with Ø8 Pagoda Fitting, 0.5%F.S, 4-20 mA, -10...10mbar					