TECHNOLOGY

HOLYKELL®

HPT703

PRESSURE
•DATASHEET•

1. Pressure Measurement   2. Level Measurement   3. Temperature Measurement
4. Flow Measurement   5. Display & Control Instruments
6.Wireless Monitoring System   7.Velocity Measurement

HPT 703

Standard Industrial Air
Micro-gas Pressure Transmitter

■ Applications

- Environmental contamination control
- Pipe pressure monitoring
- Medical equipment and devices
- Oven pressure boost and ventilation control
- Purification project
- Underground ventilation

■ Characters

- Min 0-250pa gas pressure range
- Advanced digital temperature compensation.
- UL94V-0 flame retardant grade
- Anti-humidity and water proof
- IP65 enclosure
- ia Ⅱ CT4 explosion-proof grade optional
- CE approved

TÜVRheinland® RoHS C E

■ Profiles

HPT703 micro-gas pressure transmitter is precision engineered for monitoring differential pressure of air and gases or gauge pressure in commercial and OEM applications and liquids with 0.25% accuracy.

Our low range micro-gas pressure transmitter provides an accurate solution for low pressure sensing with ranges available from 0-250pa to 0-25kPa. With SETRA variable capacitance sensing technology and argon arc welded sensitive components, its advanced circuit linearity and temperature compensation technology makes better transmitter performance. It is compact with stable structure and light weight; easy to install and use. It is suitable for the pressure or differential pressure measurement of various dry and non-corrosive gases with high measurement accuracy. It is widely used in many fields such as electrical power, environmental protection, dust removal, textile, leak detection and etc.

The installation of the micro-gas pressure transducer is very simple. The user can choose to fix it with Ø3mm screws.

| Measuring range	
bar	0 to 0.001…0.075
KPa	0-0.1...........7.5
Pa	0-100……7500

The measuring ranges are also available in Mpa,Pa,in Hg,mm Hg.

Specifications

Ambient Temperature: 25°C (unless specified)

| Parameter	HPT703				'
Pressure Range	0-100Pa,0-250Pa,0-1250Pa,0-7500Pa				
Safe overload	200% F.S.				
Burst Pressure	400% F.S.				
Accuracy(Linearity hysteresis repeatability)	1.0%F.S; 0.5%F.S; 0.25%F.S optional				
Long-term Stability	≤0.2%F.S/Year				
Working Temp.	-18℃~+65℃				
Storage Temp.	-54℃~+82℃				
Temperature compensation	5℃~65℃				
Zero Point Temp Drift	＜0.06%F.S/℃				
Full Scale Temp Drift	＜0.06%F.S/℃				
Zero Error	≤±0.5%F.S				
Total Error	≤±0.75%F.S				
Medium compatible	Air or non-conductive gas				
Electrical Wire	2 Wire		3 Wire		4 wire
Output	4-20mA	0~5V	0~10 V	0.5-4.5V	RS485
Power Supply	10~30 V DC				
Electrical connection	PG-9 or PG-13.5 cable locking device or 1/2" wire opening				
Pressure connect port	3/16" gas mouth with 1/4" hose				
Response time	＜1ms				
Adjustment	Support local zero and span calibration				
Pressure Type	Differential Pressure (Gauge pressure)				
EMC Standard	Approving				
Weight	347.5g				

Dimensions and Drawing
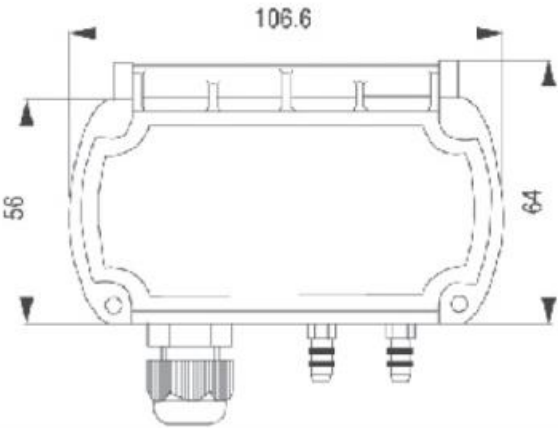
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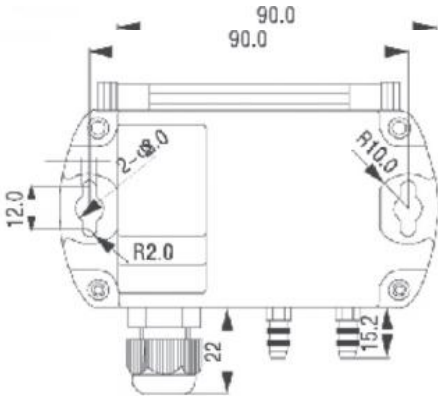
Rear View
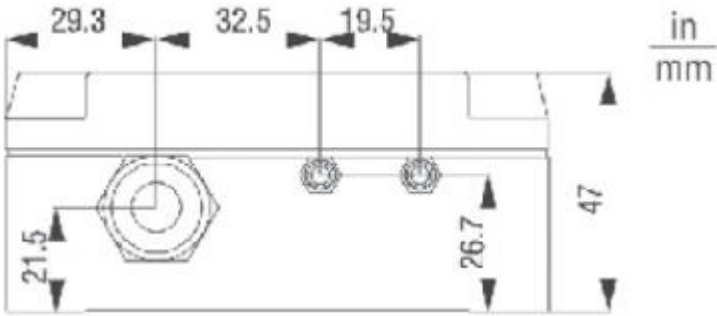
Bottom View

How to Order

1. Pressure Range Selection Table:

01	0~250Pa	07	0~400Pa	13	0~900Pa	19	0~1800Pa	43	0~2400Pa		
02	0~260Pa	08	0~450Pa	14	0~1000Pa	20	0~1900Pa	44	0~2500Pa		
03	0~270Pa	09	0~500Pa	15	0~1200Pa	21	0~2000Pa				
04	0~280Pa	10	0~600Pa	16	0~1400Pa	22	0~2100Pa				
05	0~300Pa	11	0~700Pa	17	0~1600Pa	23	0~2200Pa	X	By Customized		
06	0~350Pa	12	0~800Pa	18	0~1700Pa	24	0~2300Pa				

Kindly according to your application select suitable range code , Example: Code 16 =3kPa .
Unit of measure select on the Part Number Selection Table . Example: Code K=kPa , that's 3 kPa.

2. Part Number Selection Table:

703 Selection Type	14		A	E5	S10	22	P1	1	000

Pressure range	Range reference to pressure range selection table code.
Pressure unit	A=Pa K=kPa B=bar
Signal output	E7=0-10V (3 wire) E5=4-20mA(2 wire) E6=0-5V(3 wire) E8=0.5-4.5V(3 wire) E11=RS485 Modbus RTU X=By customized
Power supply	S17=10~30Vdc X=By customized
Pressure connection	32=3/16" gas mouth with 1/4" hose X= By Customized
Max static pressure	P1 Standard by DP Range
Accuracy	0=1.0%F.S 1=0.5%F.S 2=0.25%F.S (by customized)
Cable length	000=Non-Cable 001= Cable 1M 002= Cable 2M X= By customized

Accessories

(Notes: Please purchase separately. For the price of accessories, please contact our sales.)

	Description	Order number
	Liquid level display control device With all kinds of liquid level sensor, measurement according to liquid level, and according to the setting of the container structure and size and the density of liquid, calculation, display liquid volume or quality.	0008
	Adapter Converter It is able to convert RS-232 signal to RS-485 balanced differential signal and extend the communication distance to 1.2km.It uses a particular pump to gain power from RS-232 signal (RTS, DTR, TXD) without initializing the RS-232 series interface.This interface converter does this without requiring any AC or DC power.	0005
	Surge electrostatic protector Anti-surge ±2000V/±4000V, anti-static 18KV, suitable for protecting 4-20ma and RS485 circuits.	0014
	Terminal box The terminal box, with IP67 and watertight ventilation element, provides a moisture-free electrical termination for the submersible pressure transmitter. It should be mounted in dry environment or directly in the switch cabinet.	0003

Order information

Model /Measuring range /Output Signal/Medium/Cable length/Case/Accessories

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