



**PRESSURE SENSOR**  
DATA SHEET

## Industry Explosion Proof Type Pressure Transmitters

### Applications

- Oil, Gas applications
- Drilling platforms and pipeline
- Refineries and petrochemical industry
- Natural gas compressors
- Marine and vessel approved
- Diesel Tank level monitoring
- Hydraulic and pneumatic system
- Harsh, hazardous application

### Characters

- MEAS TE pressure core, 0.25% F.S.,
- 316L stainless steel diaphragm, Welded 316SS Body Construction Shock and erosion
- High degree of EMC/EMI protection
- IP68 Ingress waterproof protection
- Exia IIC T6, and ATEX approval
- Custom absolute and gauge (relative) versions



### Profiles

The HPT200-EX intrinsically safe pressure transmitter is designed for use in hazardous environments, and offers a reliable pressure measurement, specifically for the high demands of industrial oil and gas applications. It approved explosion proof Exia IIC T6, and ATEX approval.

They feature all stainless steel wetted parts, an exceptionally high resistance to vibration, pressure spikes and moisture ingress. Furthermore, these pressure transmitters fulfil Ip68 (ingress protection). The compact yet rugged construction of these units makes them ideal for installation where space in a hazardous environment is at a premium.

Pressure transmitters can be delivered with analog signals 4... 20 mA or RS485 RTU output signal, absolute and gauge (relative) versions, measuring ranges from 0-1 to 0-600 bar.

Holykell can provide a cost effective solution for pressure monitoring for a variety of applications. Welcome to your inquiry.

### Measuring range

Measuring range	
bar	-1 to 0..0 to 0.1...0 to 600
Kpa	-100 to 0..0 to 10...0 to 60000
psi	-15 to 0..0 to 1.5...0 to 8705
mbar	-100 to 0..0 to 100...0 to 60000

They give measuring range are also available in Mpa , Pa, in Hg, mm Hg

### Materials

Wetted Parts	Standard	Option
Case and sensor	Stainless steel	316 SST/SUS321
Filled Oil	Silicone oil	Fluorocarbon oil
Cable	PVC	PTFE/PUR/PE

Pressure Range	Gage pressure; Absolute pressure optional.	
Safe Overload	150% F.S. (standard)	
Burst Pressure	300% F.S. (standard)	
Accuracy (Linearity Hysteresis Repeatability)	$\leq \pm 0.5\% \text{ F.S}$ $\leq \pm 0.25\% \text{ F.S}$ customized Including non-lin., rep. and hys. Optional	
Long Stability	200% F.S. (standard)	
Working Temp	-30°C~85°C	
Tempe Compensation	-10°C~50°C	
Storage Temp	-40°C~125°C	
Medium compatible	Compatible with 316 Stainless Steel.	
Electronic Wire	2 Wires	4 Wires
Output	4~20mA	RS485 MODBUS RTU
Power Supply	12~30 V DC (7-30Vdc by customized)	
Load Resistance	(U-10)/0.02 ( $\Omega$ )	
Insulate resistance	>100M $\Omega$ @100V dc	
Zero Temp. Drift	0.03%FS/°C( $\leq 100\text{kPa}$ ), 0.02%FS/°C(>100kPa)	
Mechanical vibration	$\pm 20\text{g}$	
Pressure connect port	G1/4" male, G1/2" male, 1/4" NPT male, 1/2" NPT male and female optional.	
Electronic connection	1/2" NPT male thread with outlet cable IP68.	
Dimension	See below drawing.	
Water Proof	IP68	
Response time	$\leq 10\text{ms}$	
Endurance	> 100 million cycles, 0... 100 %FS at 25°C	
Certificated	CE RoHS ATEX Approving	
Explore Proof Grade	Ex(ia) IIC6 (standard type)	
Options	Temperature Range Other temperature ranges on request. Maximal range: -40...+120°C Oil Filling Fluorocarbon oil (O2-compatible), olive-oil, lowest temperature oil (-55°C) Pressure Connection, Electrical Connection Others on request. withstand Xylene medium pressure and level application (customized)	



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