

HPT708 PRESSURE •DATASHEET•

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



HPT 708 Series Oxygen Services Industry

Differential Pressure Transducer

Applications

- · Liquid oxygen/ nitrogen/CO2 level application
- Automatic testing system
- · Storage and fuel, Oil, Water Tank applications
- Gas DP pressure measurement
- Chemistry Industry level application
- · Petrochemical industry

Features

- · Filling fluid Fluorocarbon oil/100% O2compatible
- · Highest overload resistance
- · All media wetted parts are clean oil grease free
- Improved EMC resistance and reduced installationsensitivity
- · Linearized and temperature -compensated output signal
- System without any sealings
- · Calibration of zero /Span andTurn -down





Profiles

HPT708 DP transmitter is a highly reliable, stable, and accurate DP transmitters. Oxygen clean sensors & instruments which have sensor cells that are dry or filled with Fluorocarbon oil filled, which will not burn when exposed to an ignition source in an Oxygen environment, It can be used in areas where there is a risk that the device will be exposed to high levels of pure Oxygen.

The HPT708 with 316L stainless steel construction is designed to meet intrinsically safe standards, ATEX approved. All media welded parts are clean oil grease free for oxygen applications. Pressure transmitters can be delivered with analog signals including 4-20mA ,voltage output or digital 4-20mA +Hart , RS485 RTU output signal,min measuring ranges up to 100mbar.

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

Measuring Range/Span

bar	Min: 0-0.1 to Max: 0-35	
Кра	Min: 0-10 to Max: 0-3500	
psi	Min: 0-1.5 to Max: 500	
mbar	Min: 0-100 to Max: 35000	

They give measuring range also available in MPa , mH2O , in Hg, mm Hg...

Materials

Wetted Parts	Standard	Optional
Case	316L Stainless steel	NA
Diaphragm	316L Stainless steel	NA
Filled Oil	Fluorocarbon oil	NA

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Specifications

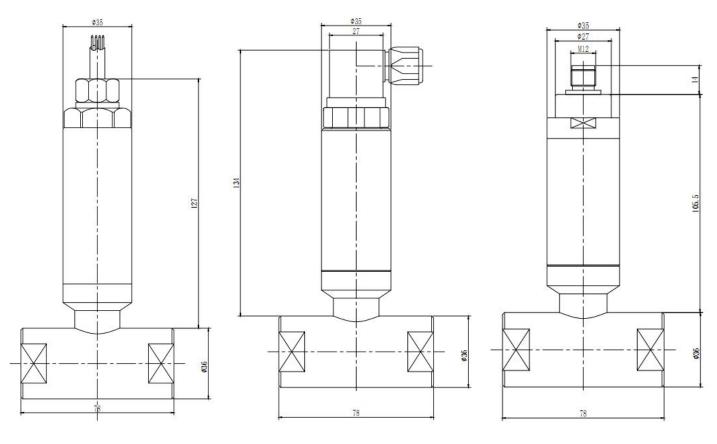
Ambient Temperature: 25°C (unless specified)

Parameter	HPT708								
Pressure Range	10~35 KPa	35~200 K	íPa	200~1000 KPa	1000~3500 KPa				
High port overload	30100 KPa	100500	KPa	5003000 KPa	300010000 KPa				
Low port overload	2070 KPa	70400 k	КРа	4002000 KPa	20007000 KPa				
Max Static Pressure	20bar	100bar		200bar	200bar				
Pressure Type	Differential pressu	re							
Accuracy	≤ ±0.5%F.S at 25℃ ≤±0.25%F.S at 25℃	· · · /·	ed)						
Stability	0.1%F.S.±0.05%/	Year Max:0.2	2%F.S/Year						
Working Temp.	-40℃~85℃ or -40℃	℃~125℃ with co	ooling device						
Storage Temp.	-40°℃~125° C								
Temperature compensation	0~50 ℃								
Medium compatible	Compatible with 31	16L Stainless Ste	eel						
Electrical Wire	2 Wires		3 Wires		4 Wires				
Output	4~20mA 4~2	20mA + HART	0-5V	0~10 V	RS485 MODBUS RTU				
Power Supply	12 ~ 30VDC 12	~ 30VDC	12 ~ 30VDC	15~30Vdc	10~30VDC				
Load resistance	(U-10)/0.02(Ω)		>100kΩ		Max 255				
Insulate resistance	>100M Ω @100V								
Filled oil	Fluorocarbon oil (suitable for oxyg	en/nitrogen/CO	2 medium)					
Zero Temp. Drift	0.02%F.S/℃								
Sensitivity Temp Drift	0.02%F.S/℃								
Electrical connection	Fixed cable and wa	ater proof IP67; I	DIN43650 Hirsc	hmann Terminal Box IP6	5 optional				
Mounting connect	NA								
Pressure connection port	1/4"-18NPT Femal	le hose connecti	on, Others by c	ustomize					
Certificate	ATEX ExialICT6 E	xplosion Proof, ⁻	TUV CE and Ro	HS Certificates					
	IP65 and IP68 according electronic connector type								
IP Rating	IP65 and IP68 acc	ording electronic	c connector type	•					
IP Rating EMC Standard	IP65 and IP68 acc EN 61326-1:2013; EN 61000-6-2:200	EN 61326-2-3:2	2013						

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Dimensions and Drawing

Unit: mm



HPT708-C8

HTP708-H5

HTP708-M7

Electrical Connections

Direct cable outlet							
	Red	U+					
Current	Green	lout(U-)					
	Black	≟ Connect to earth ground					
	Red	U+					
Voltage	Green	Vout					
	Black	U-					
	Red	U+					
	Black	U-					
 RS485 RTU MODBUS	Green	RS485A					
MODB03	Blue	RS485B					
	Yellow	≟ Connect to earth ground					

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PRESSURE MEASUREMENT

How to Order

1. Pressure Range Selection Table:

01	0~0.1	02	0~0.2	03	0~0.35	04	0~0.7		05	0~1	06	0~1.5	07	0~2	08	0~2.5	
09	0~3	10	0~3.5	11	0~5	12	0~10		13	0~15	14	0~20	15	0~25	16	0~30	
17	0~35	18	0~38	19	0~40	20	0~50		21	0~100	22	0~150	23	0~200	24	0~250	
25	0~300	26	0~500	27	0~1000	х	By Custor	niz	zed								

Kindly according to your application select suitable range code , Example: Code 09 =3 . Unit of measure select on the Part Number Selection Table . Example: Code B=Bar , that's 3 bar .

2. Part Number Selection Table:

708 Selection Type	23	к	E5	S10	26	Ν	1	1	002
Pressure Range	Range refer to pressure range selection table code								
Pressure Unit	B=bar P=Psi K M=MPa H=mH2O	(=KPa							
Signal Output	E5=4-20mA(2 wires) E6=0- E7=0-10V (3 wires) E11=RS485 MODBUS RTU E14=4-20mA +Hart (2 wires	(4 wires)	s)						
Power Supply	S13=12~24Vdc S10=12~ S17=10~30Vdc S9=15~3								
Pressure Connection	26= 1/4"-18NPT Female (Ty 6=G1/4" male 8= M20x1.5 male X= By Customized	7:	=G=1/2" m =G1/4" Fe 0=1/2"NPT	male					
Installation Mounting	N=Top Clamp (Typical) X=By customized								
Electrical Connection	1=Direct outlet cable 2=Hirschmann terminal bo 3=M12*1.0 4 Pins 4=M12*1.0 5 Pins (Modbu		olication)						
Accuracy	1=0.5%F.S (Typical) 2=	0.25%F.S	6 (by custo	omized)					
Cable length	000=Non-Cable 001= Ca	able 1M(002= Cab	le 2M X	K= By cus	tomized			

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Accessories

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(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
	Locking flange For locking cables	0029
	IP68 rated deep water level cable extender Mainly used to extend the cable of deep water level transmitter. Users can rewire it locally. It can work continuously for more than 10 years 500 meters underwater, and the safe tensile strength of the cables at both ends can reach 200N	0028
R	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
	Desiccant drying cartridge Desiccant Pack installed on Vented Transducer cable.The cartridge will have to be field replaced as site environment requires.	0010

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

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