

HPT708 PRESSURE • DATASHEET•

HPT 708 Series

Oxygen Services Industry Differential Pressure Transducer

Applications

- · Liquid oxygen/ nitrogen/CO2 level application
- · Automatic testing system
- · Storage and fuel, Oil, WaterTank 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 installation sensitivity
- · Linearized and temperature -compensated output signal
- · System without any sealings
- · Calibration of zero /Span and Turn -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



Specifications

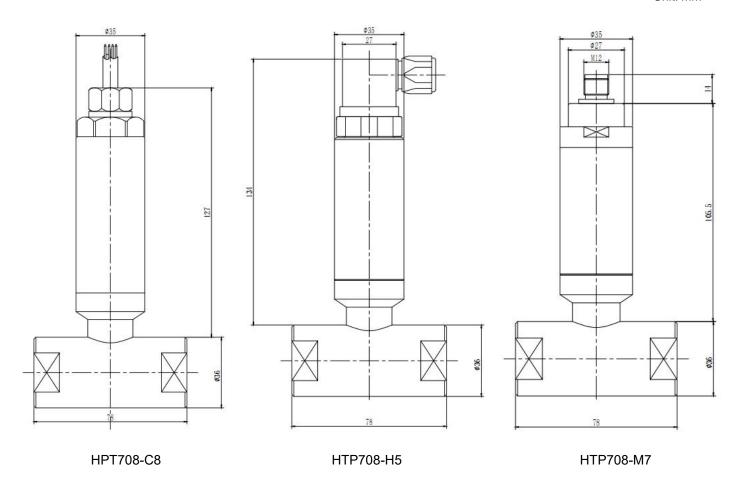
Ambient Temperature: 25°C (unless specified)

Parameter	HPT708										
Pressure Range	10~35 KPa	200~1000 KPa	1000~3500 KPa								
High port overload	30100 KPa	5003000 KPa	300010000 KPa								
Low port overload	2070 KPa	4002000 KPa	20007000 KPa								
Max Static Pressure	20bar	100bar		200bar	200bar						
Pressure Type	Differential pressure										
Accuracy	≤ ±0.5%F.S at 25℃ (Ty ≤±0.25%F.S at 25℃ (by	. ,	ed)								
Stability	0.1%F.S.±0.05%/Year	Max:0.	2%F.S/Year								
Working Temp.	-40℃~85℃ or -40℃~12	25℃ with c	ooling device								
Storage Temp.	-40℃~125℃										
Temperature compensation	emperature compensation 0~50°C										
Medium compatible	Compatible with 316L S	tainless St	eel								
Electrical Wire	2 Wires		4 Wires								
Output	4~20mA 4~20mA	+ HART	0-5V	0~10 V	RS485 MODBUS RTU						
Power Supply	12 ~ 30VDC 12 ~ 30	VDC	12 ~ 30VDC	15~30Vdc	10~30VDC						
Load resistance	$(U-10)/0.02(\Omega)$		>100kΩ		Max 255						
Insulate resistance	>100M Ω @100V										
Filled oil	Fluorocarbon oil (suital	ole 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 water p	roof IP67;	DIN43650 Hirso	hmann Terminal Box IP6	5 optional						
Mounting connect	NA										
Pressure connection port	1/4"-18NPT Female hose connection, Others by customize										
Certificate	ATEX ExialICT6 Explos	ion Proof,	TUV CE and Ro	HS Certificates							
IP Rating	IP65 and IP68 accordin	g electronio	c connector type								
EMC Standard	EN 61326-1:2013; EN 6 EN 61000-6-2:2005; EN										
Response time	≤10ms										



Dimensions and Drawing

Unit: mm



Electrical Connections

Direct cable outlet								
	Red	U+						
Current	Green	Signal+ & U-						
	Black	≟ Connect to earth ground						
	Red	U+						
	Green	U- & Signal-						
Voltage	Yellow	Signal+						
	Black	≟ Connect to earth ground						
	Red	U+						
RS485 RTU	Green	U-						
MODBUS	Yellow	RS485A						
	Blue	RS485B						



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 Custom	niz	ed.								

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:

2. Part Number Sele	ection lable:								
708 Selection Type	23	K	E 5	S10	26	N	1	1	
Pressure Range	Range refer to <i>pressure</i> 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	J (4 wires)	3)						
Power Supply	\$13=12~24Vdc \$10=12~ \$17=10~30Vdc \$9=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" Fer)=1/2"NPT	nale					
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		lication)						
Accuracy	1=0.5%F.S (Typical) 2=	-0.25%F.S	(by custo	mized)					
Cable length	000=Non-Cable 001= Ca	able 1M 0	002= Cabl	e 2M X	<= By cus	tomized			



Accessories

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

	Description	Order number
TOTAL	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
	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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