

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 outputsignal
- · 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							
Kpa	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

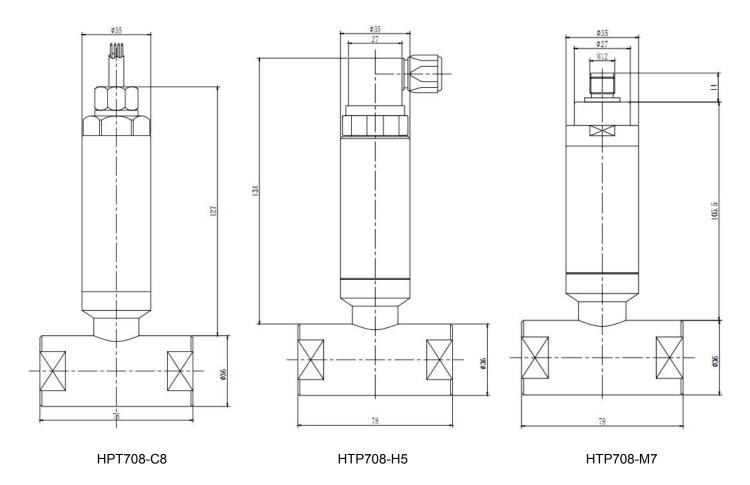
Ambient Temperature: 25°C (unless specified)

Parameter	HPT708									
Pressure Range	10~35 KPa	200~1000 KPa	1000~3500 KPa							
High port overload	30100 KPa	100500	5003000 KPa	300010000 KPa						
Low port overload	2070 KPa	70400	KPa	4002000 KPa	20007000 KPa					
Max Static Pressure	20bar	100bar		200bar	200bar					
Pressure Type	Differential pressure									
Accuracy	≤ ±0.5%F.S at 25°C (Ty ≤±0.25%F.S at 25°C (b		ed)							
Stability	0.1%F.S.±0.05%/Yea	Max:0.	2%F.S/Year							
Working Temp.	-40℃~85℃ or -40℃~1	25℃ with c	ooling device							
Storage Temp.	-40℃~125℃									
Temperature compensation	0~50℃									
Medium compatible	Compatible with 316L S	Stainless St	eel							
Electrical Wire	2 Wires		3 Wires		4 Wires					
Output	4~20mA 4~20m	A + 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 (suita	ble for oxyg	gen/nitrogen/CO	2 medium)						
Zero Temp. Drift	0.02%F.S/℃									
Sensitivity Temp Drift	0.02%F.S/℃									
Electrical connection	Fixed cable and water	proof 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 Explosion Proof, TUV CE and RoHS Certificates									
IP Rating	IP65 and IP68 according	ng electroni	c connector type							
EMC Standard	EN 61326-1:2013; EN EN 61000-6-2:2005; El									
Response time	≤10ms									



Dimensions and Drawing

Unit: mm



Electrical Connections

Direct cable out	tlet	
Current	Red	Vcc+
Current	Green	S+
	Black	GND&Shield
	Red	Vcc+
Voltage	Green	Vcc-&S-
	Yellow	S+
	Black	Ground&Shield
RS485 RTU	Red	Vcc+
 MODBUS	Green	Vcc-/0Vcc
	Yellow	RS485A
	Blue	RS485B

S=Signal, Vcc=Power Supply, GND=Vcc-&S-



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	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:

708 Selection Type	23	K	E 5	S10	26	N	1	1	0
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	J (4 wires)	s)						
Power Supply	\$13=12~24Vdc \$10=12~ \$17=10~30Vdc \$9=15~3								
Pressure Connection	26= 1/4"-18NPT Female (T 6=G1/4" male 8= M20x1.5 male X= By Customized	7:	=G=1/2" m =G1/4" Fe 0=1/2"NP1	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	(by custo	omized)					
Cable length	000=Non-Cable 001= C	able 1M(002= Cab	le 2M >	<= By cus	tomized			



Accessories

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

	Description	Order number
# 100 mm mm m m m m m m m m m m m m m m m	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
Digital Instrument	Attached indicator for transmitters local display (4-1/2bits)	0006
	Cooling device For thread attachment	0004
	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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