

HPT300-C PRESSURE • DATASHEET•

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



HPT300-C Series

Commercial Refrigeration Pressure Transducers & Transmitters

Applications

- Refrigeration equipment
- Centrifugal compressor
- · Screw-type, reciprocating and turbo compressors
- Air-conditioner production line testing
- HVAC Systems
- · Energy and Water Treatment



HPT300-C1

HPT300-C2



Features

Built-in Schrader Deflator

- -35°C~125°C wide working temp scope
- · Long time working at low temperature
- Superior long-term stability
- · Excellent repeat ability/hysteresis
- EMI/RFI rejection
- · Over voltage, reverse polarity and short circuit protection

Profiles

HPT300-C pressure transducer is with integrated Germany Ceramic sensors for manufacturing, and the advanced circuit design to avoid influences on the product caused by the temperature, humidity, mechanical fatigue and medium, thus to improve its permanent stability in the industrial environment. Its measuring range -1 to 200Bar, long lifetime 100 million pressure cycles, stainless steel body material, thread and output signal can be customized.

The HPT300-C series is specially designed with highest quality standards and has successfully passed TUV CE certification, its excellent resistance to the main refrigerants filed, with economic price make it ideal pressure monitoring device for low temp performance for use in refrigeration, air-conditioning and HVAC systems.

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

Measurin	ig range	
bar	-1 to 00 to 200	
Kpa	-100 to 00 to 20000	
psi	-15 to 00 to 3000	
mbar	-1000 to 00 to 200000	

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

Materials

matorialo		
Wetted Parts	Standard	Optional
Case	304 Stainless steel	316 SST/SUS321
Sensor	Ceramic	Sputtering thin film
O-ring	CR/HNBR	FKM

PRESSURE MEASUREMENT

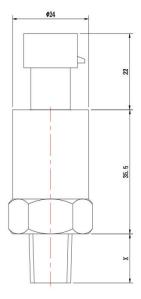
Specifications

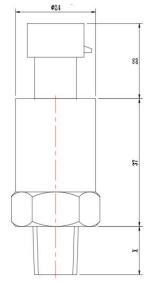
Ambient Temperature: 25°C (unless specified)

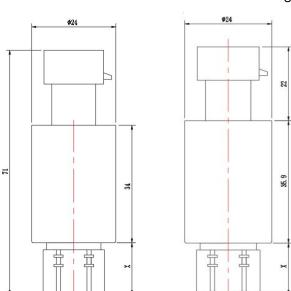
Parameter	НРТ300-С			
Pressure Range	Gauge /Negative/Abso	lute pressure optional		
Overload	150% F.S.			
Burst Pressure	200% F.S.			
Accuracy	Min.: ≤ ±1.5%F.S	Typical: ≤ ±1.0%F.S	Max: ≤ ±0.5%F.S (at	25°C)
Total Error Band	050 °C max. ≤±1.5%	FS; -2080 °C max. ≤±2.0 %	%FS	
Stability	0.2%F.S±0.05%/Year			
Working Temp.	-40℃~105℃(with CR (೦-ring); -40℃~135℃(with H	NBR O-ring); -20℃~135	℃(with FKM O-ring)
Storage Temp.	-40 ℃~105℃			
Temperature Compensation	0℃~50℃			
Medium Compatible	Compatible with SUS3	04 Stainless Steel and cerar	nic	
Electrical Wire	2 Wires		3 Wires	
Output	4-20mA	0-5V	0-10V	0.5-4.5V ratiometric
Power Supply	8-30Vdc	8-30Vdc	13-30Vdc	5Vdc±5%
Insulate resistance	>100M Ω @100V			
Thermal effect on span	+/- 0.02%/ ℃			
Thermal effect on zero	+/- 0.2%/ ℃			
Electrical connection	Packard 3 Pin Connec Packard 3 Pin Connec	tor; tor with cable length by custo	omized.	
Pressure connect port	1/4"NPT male, 7/16"-2	0 UNF male/Female (by cus	tomized)	
EMC Standard	EN 61326-1:2013; EN EN 61000-6-2:2005; E			
IP rating	IP67			
Response time	≤20ms			
Certificate	CE Certificate			

PRESSURE MEASUREMENT

Dimensions and Drawing







HPT300-C1(Pressure < 65Bar) HPT300-C1D(Pressure ≥ 65Bar)

HPT300-C2(Pressure < 65Bar) HPT300-C2D(Pressure ≥ 65Bar)

Electrical Connection

	Packard 3 Pin Connector				
		A	≟ Connect to earth ground / Black		
A B	Current	В	U+ / Red		
		С	lout(U-) / Green		
		A	U- / Black		
· −c	Voltage	В	U+ / Red		
		С	Vout / Green		

ressure Connectio	ns			
1/2"NPT male	1/4" NPT male	G1/2" male	G1/4" male	7/16"-20 UNF Female
S24 1/2 "NPT	S24 1/4 " NPT	S24 Gly2"	S24 G1/4"	522 7/16 ^{**} -20 WNF Female

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Unit, mm

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PRESSURE MEASUREMENT

How to Order

1. Range Selection Table:

01	-1~65	07	0~6	13	0~35	19	0~160		
02	-1~125	08	0~10	14	0~40	20	0~200		
03	0~1	09	0~16	15	0~50				
04	0~2	10	0~20	16	0~60				
05	0~3	11	0~25	17	0~70				
06	0~5	12	0~30	18	0~100		By Customized		

Kindly according to your application select suitable range code , Example: code 17 = 70 . Unit of measure select on the Part Number Selection Table . Example: Code B=Bar , that's 70 bar

2. Part Number Selection Table:

300C1/2 Selection Type	12	B G	E5	S11	3	1	002
Pressure Range	Range reference to pressure range selection table code						
Pressure Unit	B=bar P=Psi K=KPa M=N	ſРа					
Pressure type	G=Gauge/Relative A=Abs	solute					
Signal Output	E5=4-20mA(2 wire) E6=0-5V(3 E7=0-10V(3 wire) E8=0.5-4.4 X= By Customized						
Power Supply	S6=5Vdc S12=8-30Vdc S43=13-30Vdc X= By customized						
Pressure connection	3= 1/4" NPT male 4=1 5=1/8"NPT male 6=0	7/16-20UNF Femal /4" NPT Female 61/4"male By customized	e				
Accuracy	0=better than1.5%F.S (Default)	0=1.0%F.S(Typ	ical)	1=0.5%F.\$	S(On reques	st)	
Cable length	000=Non-Cable 001= Cable 1	M 002= Cable 2	2M X	= By custo	mized		

PRESSURE MEASUREMENT

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

Order information

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