

TECHNOLOGY

HOLYKELL®

HPT300-C

PRESSURE

• DATASHEET •

- 1. 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

Features

- Built-in Schrader Deflator
- -35°C~125 °C Wide working temp scope
- Long time working at low temperate -30°C
- 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.



HPT300-C1

HPT300-C2



RoHS CE

Measuring range

bar	-1 to 0 ...0 to 200
Kpa	-100 to 0 ...0 to 20000
psi	-15 to 0...0 to 3000
mbar	-1000 to 0...0 to 200000

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

Materials

Wetted Parts	Standard	Optional
Case	304 Stainless steel	316 SST/SUS321
Sensor	Ceramic	Strain Gage
O-ring	NBR	PTFE

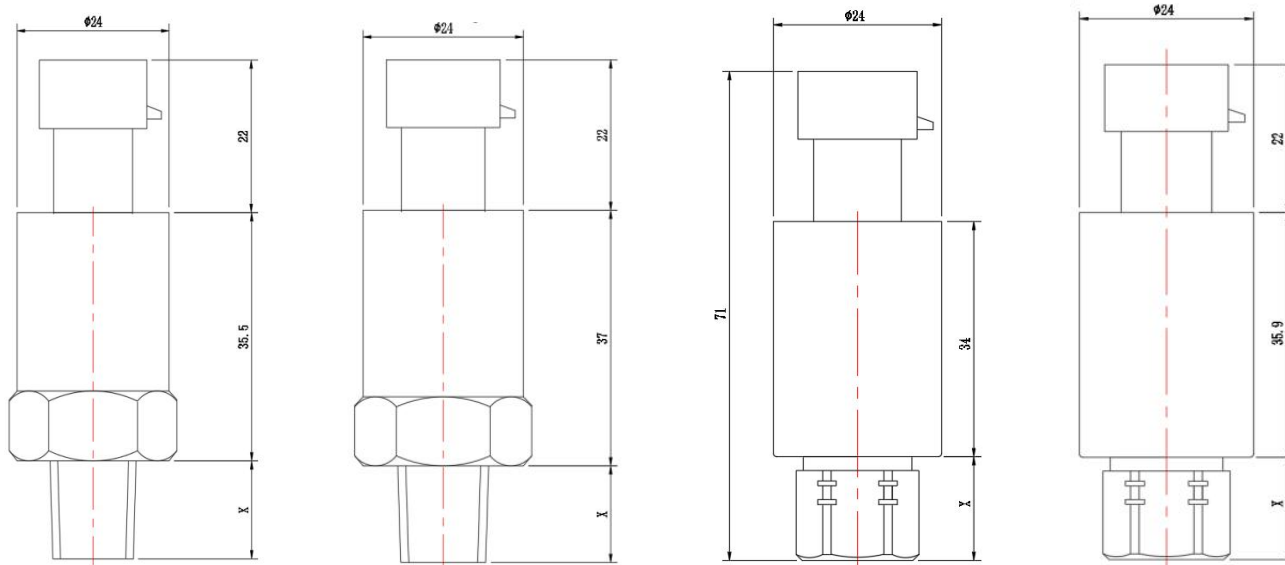
Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT300-C			
Pressure Range	Gauge /Negative/Absolute pressure optional			
Overload	150% F.S.			
Burst Pressure	200% F.S.			
Accuracy	$\leq \pm 1.0\% \text{F.S (Typical)}$; $\leq \pm 0.5\% \text{F.S (By Customized)}$ at 25°C			
Total Error Band	0...50 °C max. $\leq \pm 1.0\% \text{FS}$; -20...80 °C max. $\leq \pm 2.0\% \text{FS}$			
Stability	0.2%F.S \pm 0.05%/Year			
Working Temp.	-20°C~80°C(corrosive medium); -40°C~80°C(non-corrosive medium)			
Storage Temp.	-40°C~125°C(Nitrile rubber sealing ring); -30°C~150°C(fluororubber rubber sealing ring)			
Temperature Compensation	0°C~50°C			
Medium Compatible	Compatible with SUS304 Stainless Steel and ceramic			
Electrical Wire	2 Wires		3 Wires	
Output	4-20mA	0-5V	0-10V	0.5-4.5V ratiometric
Power Supply	7-30Vdc	8-30Vdc	13-30Vdc	5Vdc \pm 5%
Insulate resistance	>100M Ω @100V			
Thermal effect on span	+/- 0.02%/°C			
Thermal effect on zero	+/- 0.2%/°C			
Electrical connection	Packard 3 Pin Connector; Packard 3 Pin Connector with cable length by customized.			
Pressure connect port	1/8"NPT male, 1/4"NPT male/Female, 7/16"-20 UNF male/Female (by customized)			
EMC Standard	EN 61326-1:2013; EN 61326-2-3:2013 EN 61000-6-2:2005; EN61000-6-4:2007+A1			
IP rating	IP67			
Response time	$\leq 20\text{ms}$			
Certificate	CE Certificate			

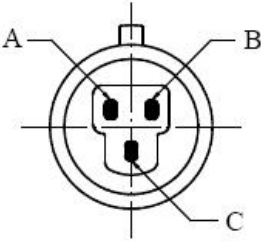
Dimensions and Drawing

Unit, mm



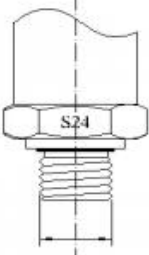
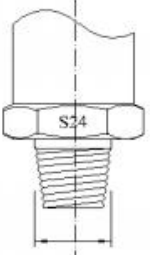

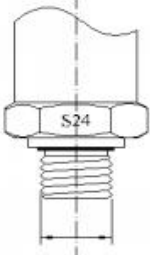
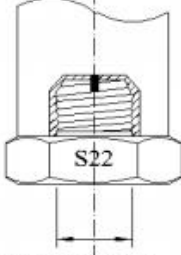
HPT300-C1(Pressure<65Bar) HPT300-C1D(Pressure≥65Bar) HPT300-C2(Pressure<65Bar) HPT300-C2D(Pressure≥65Bar)

Electrical Connection

	Packard 3 Pin Connector		
	Current	A	Shield/Black
		B	Vcc+ / Red
		C	Si+/Green
	Voltage	A	GND/Black
		B	Vcc+/Red
		C	Vout+/Green

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

Pressure Connections

1/2"NPT male	1/4" NPT male	G1/2" male	G1/4" male	7/16"-20 UNF Female
				
1/2" NPT	1/4" NPT	G1/2"	G1/4"	7/16"-20 UNF Female

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	X	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:

300C1/2/3/4 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=MPa							
Pressure type	G=Gauge/Relative A=Absolute							
Signal Output	E5=4-20mA(2 wire) E6=0-5V(3 wire) E7=0-10V(3 wire) E8=0.5-4.5V(3 wire) X= By Customized							
Power Supply	S6=5Vdc S11=7-30Vdc S12=8-30Vdc S43=13-30Vdc X= By customized							
Pressure connection	1=7/16-20UNF male 2=7/16-20UNF Female 3= 1/4" NPT male 4=1/4" NPT Female 5=1/8"NPT male 6=G1/4"male 7=G1/4"Female X= By customized							
Accuracy	0=1.0%F.S 1=0.5%F.S X=By customized							
Cable length	000=Non-Cable 001= Cable 1M 002= Cable 2M X= By customized							

Accessories

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

Description		Order number
	Liquid level display control device	0008
	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.	

Order information

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