

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 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.



HPT300-C1

HPT300-C2



### 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	Sputtering thin film
O-ring	CR/HNBR	FKM

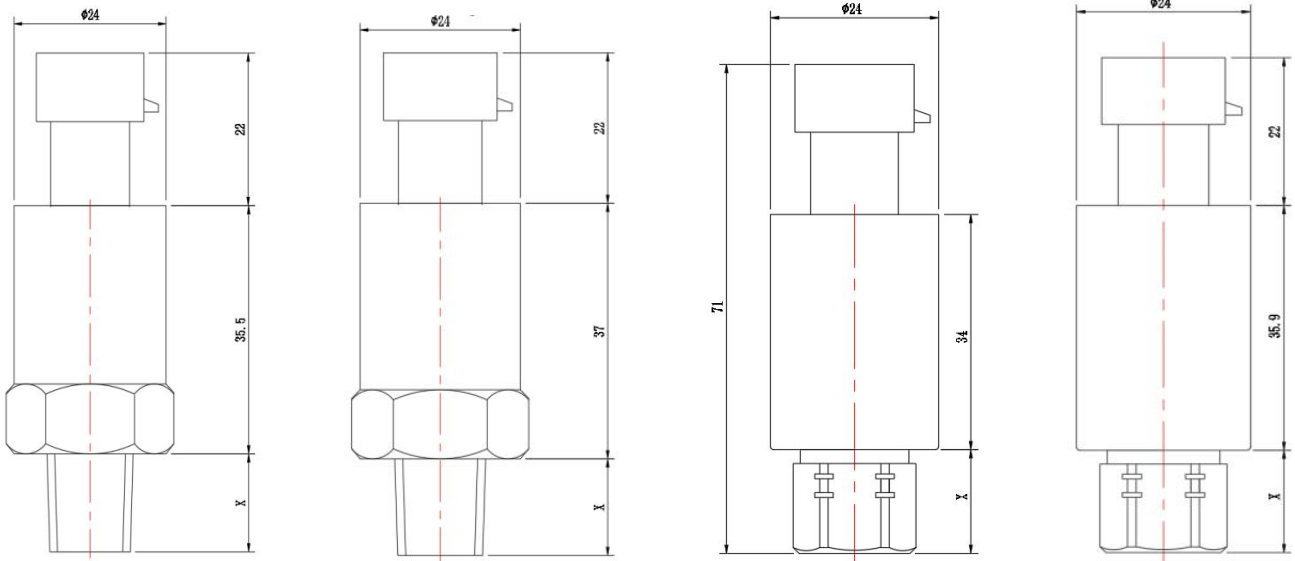
### Specifications

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	Min.: $\leq \pm 1.5\%F.S$	Typical: $\leq \pm 1.0\%F.S$	Max: $\leq \pm 0.5\%F.S$ (at 25°C)	
Total Error Band	0...50 °C max. $\leq \pm 1.5\%FS$ ; -20...80 °C max. $\leq \pm 2.0 \%FS$			
Stability	0.2%F.S $\pm$ 0.05%/Year			
Working Temp.	-40°C to +105°C(with CR O-ring); -40°C to +135°C(with HNBR O-ring); -20°C to +135°C(with FKM O-ring)			
Storage Temp.	-40°C to +105°C			
Temperature Compensation	0°C to +50°C			
Medium Compatible	Compatible with SUS304 Stainless Steel and ceramic			
Electrical Wire	2 Wires		3 Wires	
Output	4-20 mA	0-5 V	0-10 V	0.5-4.5 V ratiometric
Power Supply	8-30 V DC	8-30 V DC	13-30 V DC	5 V DC $\pm$ 5%
Insulate resistance	>100M $\Omega$ @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 connection	1/4"NPT male, 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	$\leq 20ms$			
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**


	<b>Packard 3 Pin Connector</b>		
	Current	A	⏚ Connect to earth ground / Black
		B	U+ / Red
		C	Iout(U-) / Green
	Voltage	A	U- / Black
		B	U+ / Red
C		Vout / Green	

Pressure Connections				
1/2" NPT male	1/4" NPT male	G1/2" male	G1/4" male	7/16"-20 UNF Female
<p>1/2" NPT</p>	<p>1/4" NPT</p>	<p>G1/2"</p>	<p>G1/4"</p>	<p>7/16"-20 UNF Female</p>



### Accessories

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

	Description	Order number
	<p><b>Liquid level display control device</b>                      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.</p>	<p>0008</p>

### Order information

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