

TECHNOLOGY

HOLYKELL®

HPT300-C

PRESSURE

• DATASHEET •

1. Pressure Measurement 2. Level Measurement 3. Temperature Measurement
4. Flow Measurement 5. Display & Control Instruments

HPT300-C series

Economic Compact OEM 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

Characters

- SAE female Process Connection with 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 The pressure transducer 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. It with 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 special designed with highest quality standards and successfully passed TUV CE certification, its excellent resistance to the main refrigerants filed, it is with economic price and ideal 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 to your inquiry.



RoHS

Measuring range

Measuring range	
bar	-1 to 0 ...0 to 200
Kpa	-100 to 0 ...0 to 20000
psi	-15 to 0...0 to 2900
mbar	-1000 to 0...0 to 200000

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

Materials

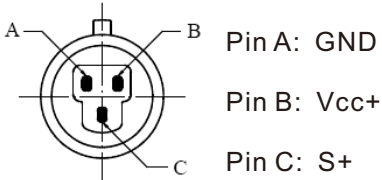
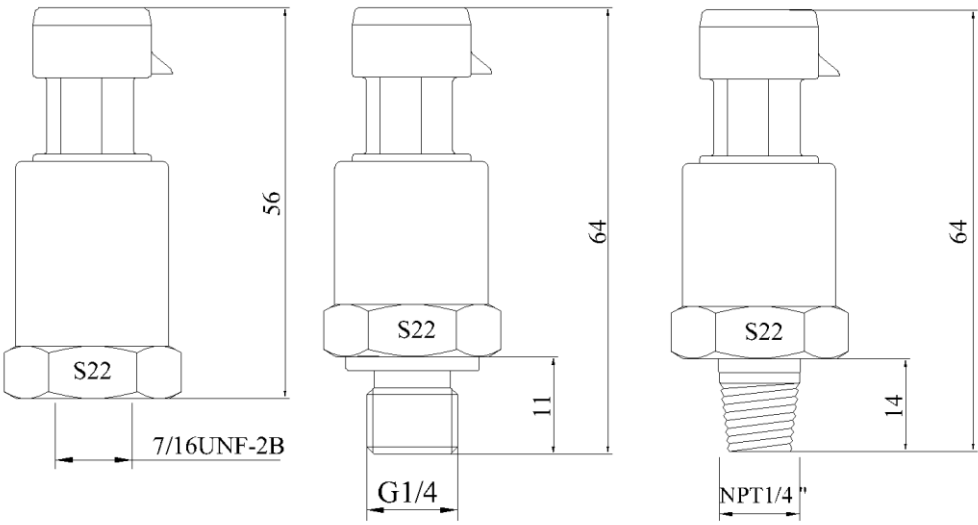
Wetted Parts	Standard	Option
Case	304 Stainless steel	316 SST/SUS321
Sensor	Ceramic	Strain Gage
O-ring	NBR	PTFE

■ Specifications

Ambient Temperature: 25°C (unless otherwise specified)

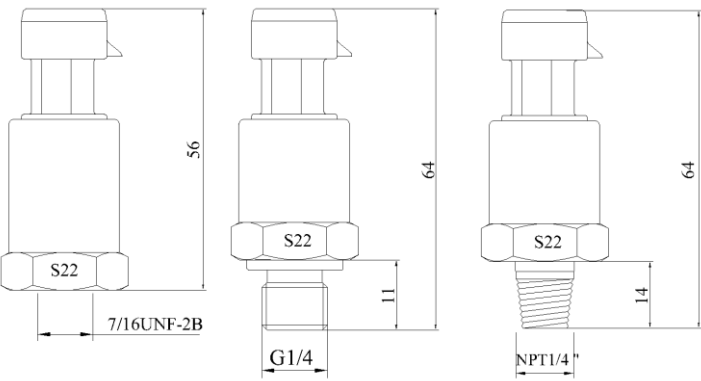
Parameter	HPT300-C			
Pressure Range	Gage /Negative/Absolute pressure optional			
Overload	150% F.S.			
Burst Pressure	200% F.S.			
Accuracy (Linearity Hysteresis Repeatability)	≤ ±1.0%F.S (Standard) ≤ ±0.5%F.S (Customized) Optional.			
Stability	0.5%F.S±0.05%			
Working Temp	-35°C~125°C			
Storage Temp	-40°C~125°C			
Temperature Compensation	0°C~80°C (Standard)			
Thermal effect on zero	+/- 0.1%			
Thermal effect on span	+/- 0.05%			
Medium compatible	Compatible with SUS304 Stainless Steel and ceramic			
Electronic Wire	2 wires	3 Wires		
Output	4~20mA	0~5V	0~10 V	0.5~4.5 V radio metric
Power Supply	12~30 V DC	10~30 V DC	15~30VDC	5 V DC±5%
Short circuit protected	Yes	Yes	Yes	Yes
Over-voltage protection	45 V DC	45 V DC	45 V DC	NA
Insulate resistance	>100M Ω @50V			
Electronic connection	Packard 3 Pin Connector; Smaller Hirschman Terminal Box IP65; Packard 3 Pin Connector with cable length by Customized.			
Pressure connect port	1/8"NPT male, 1/4"NPT male/Female, G1/4" male/female, 7/16"-20 UNF male/Female (by Customized)			
Response time	≤20ms			
Certificate approving	CE Certificate available.			
EMC Standard	EN 61326-1:2013; EN 61326-2-3:2013 EN 61000-6-2:2005; EN61000-6-4:2007+A1			
Water Proof	IP67			
Weight	Net weight is about 0.1KG, Full Packing weight is about 0.2KG (Included 2 Meters Cable)			

■ Dimensions and Drawing



Unit: mm

■ Electronic Connections



Packard 3 Pin Connector		
Current	A	Shield
	B	Vcc+
	C	S+
Voltage	A	GND
	B	Vcc+
	C	S+

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

How to Order

1. Pressure Range Selection Table:





01	-1~1	02	-1~10	03	-1~16	04	-1~20	05	-1~25	06	-1~30	07	-1~35	08	-1~40	
09	-1~65	10	-1~125	11	0~7	12	0~10	13	0~16	14	0~18	15	0~20	16	0~25	
17	0~30	18	0~35	19	0~40	20	0~50	21	0~65	22	0~70	23	0~100	24	0~125	
25	0~150	26	0~200	27	0~250	28	0~300	29	0~600	X	By Customized					

Kindly according to your application select suitable range code , Example: code 12 = 10 .
Unit of measure select on the Part Number Selection Table . Example: Code B=Bar , that's 10 bar .

2. Part Number Selection Table:

HPT300-C Selection Type	G	12	B	E5	3	S3	1	002
Pressure Type	G=Gage A=Absolute N=Negative							
Pressure Measurment	Range reference to pressure range selection table code							
Pressure Unit	B=Bar P=PSI K=kPa M=MPA H=mH2O							
Output	E0= 1-5V (3 wires) E5= 4-20mA(2 wires) E6= 0-5V (3 wires) E7= 0-10V (3 wires) E8= 0.5-4.5V(3 wires) E16=0.5-3.5V(3 wires) E20=4-20mA(3 wires) 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 6=G1/4"male 5=1/8"NPT male 7=G1/4"Female X= By Customized							
Power Supply	S3=24 V DC (Standard) S6=5V DC (for E8) S10=12~30 V DC (for E8,E5) S14=15~30 V DC (for E6, E7)							
Accuracy	1=1.0%F.S 2=0.5%F.S.							
Cable length	0=Non-Cable 001= Cable 1M 002= Cable 2M x= By Customized							

Accessories

	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
	NPT adapter The 316 SS G1/2 adapter replaces the removable protective cap and converts the threads to 1/2"NPT male external, 1/4" female internal threads.	0001
	O-ring NBR or PTFE material optional	0007
	Terminal box The terminal box, with IP 67 ingress protection 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