

Inverter air conditioning and refrigeration system pressure sensor

GaMicos

GPT233S

DESCRIPTION

GPT233S is a piezoresistive ceramic pressure sensor made from imported ceramic materials by special process, with the processes of computer automatic testing and full temperature range of zero and full scale compensation by and laser trimming process, which has excellent temperature characteristics and good performance. The built-in processing circuit imported from abroad converts the sensor millivolt signal into a standard analog signal output, which can be directly connected with the control instrument, display instrument, etc., and can carry out long-distance signal transmission.

APPLICATIONS

- Inverter air conditioning system (commercial air conditioning and central air conditioning)
- Suction and discharge pressure monitoring
- Compressor oil pressure monitoring
- Condenser fan control
- Compressor energy output control
- Electronic expansion valve control
- System diagnosis process
- Refrigeration system
- Transportation and refrigeration



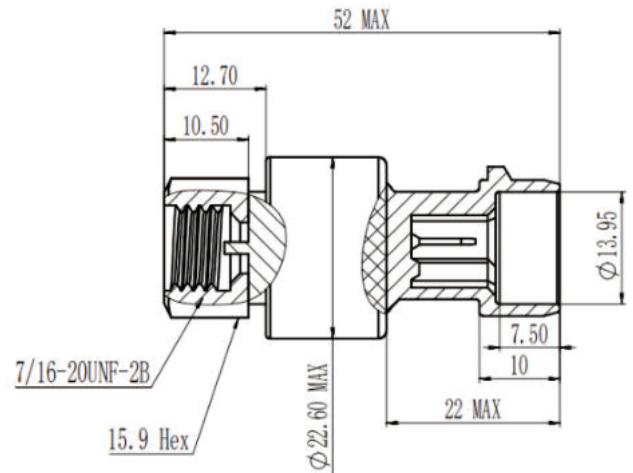
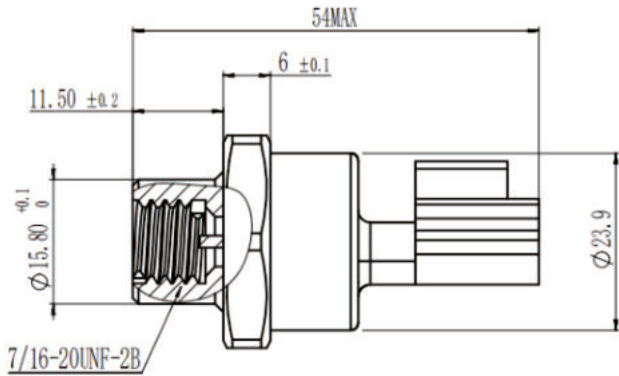
PRODUCT CHARACTERISTICS

- High integration, small size and high anti-vibration ability
- High accuracy, long service life and strong anti-alternating ability
- Anti-overload shock and high anti-interference ability
- Overvoltage and overcurrent protection

TECHNICAL PARAMETER

Pressure range	0~20MPa (Pressure range is optional)		
Overload pressure	≥150%~200%F.S.		
Damage pressure	≥300%F.S.		
Accuracy	±1%F.S. (Linearity · Hysteresis · Repeatability) @25C°		
Full error band	±3.0%F.S. (-40℃~+125℃) High accuracy version is optional		
Operation temperature	-40~+100℃		
Storage temperature	-40~+125℃		
Service life	Five million times full scale cycles		
Measured medium	The refrigerants like R22、R407C、R134A		
Power supply	12-30VDC	5VDC	12-24VDC
Output	4~20mA	0.5~4.5V (optional)	1~5V (optional)
Supply current	10mA(Maximum)		
Load impedance	10KΩ (Typical)		
Vibration	11g(5-2000HZ)		
Safe dropping distance	1.5m		
Response time	10mS		
Electrical interface	Yazaki · Packard · others		
Pressure interface	7/16-20UNF-2B · 3/8-24UNF · M12*1.25 · others		
EMC (1MHz-512MHz)	100V/m		
ESD	8kV direct contact, 15kV air		

DIMENSIONS



ORDER GUIDE

GPT233S	Pressure transmitter						
	Code	Pressure range					
	0/X	0~20MPa					
	Code	Pressure type					
	G	Gauge					
	S	Sealed gauge pressure					
	A	Absolute pressure					
	Code	Output					
	T1	4-20mA					
	T2	0.5-4.5VDC					
	T3	1-5VDC					
	T4	Others					
	Code	Power supply					
	V1	12-30VDC					
	V2	5 VDC					
	V3	12VD C					
	V4	24VDC					
	Code	Accuracy					
	A1	1%F.S. (customized)					
	A2	1.5%F.S.					
	Code	Electrical interface					
	B1	Yazaki					
	B2	Packard					
	B3	Others					
	Code	Pressure interface					
	C1	7/16-20UNF-2B					
	C2	3/8-24UNF					
	C3	M12*1.25					
	CX	Others					
GPT233S	0/1MPa	A	T4	V2	A1	B2	C1