

# Ceramics Pressure Transmitter

## GPT230

### Description

GPT230 series pressure transmitters have the characteristics of high quality, high stability, small size, low weight, compact structure, low cost and volume-production. It is widely used to measure pressure such as occasion of compressor, Auto, air-condition etc.

The product is made of stainless steel and well-known brand sensor. The special transmitter converting circuit can adjust the zero value and the full range expediently. It also has the intrinsically safe certificate, the explosion-proof certificate and the CE certificate.

The product is produced with military craft and has the characteristics of advanced design, perfect technology, strict production, superior device, superior management, perfect quality control system. It has been sold in more than 40 countries.

### Features

- used in refrigeration Industry
- $\pm 0.5\%FS, \pm 1\%FS$  accuracy
- high stability , high reliability
- ceramic sensor from German
- digital calibration
- multiple connectors and ports
- CE compliant
- ROHS compliant

### Application

- Process control system
- Compressor
- Building Water supply
- Hydraulic control
- Air conditioner
- Automotive engine
- Automatic detection system
- Hydraulic Pressure station
- Refrigerator

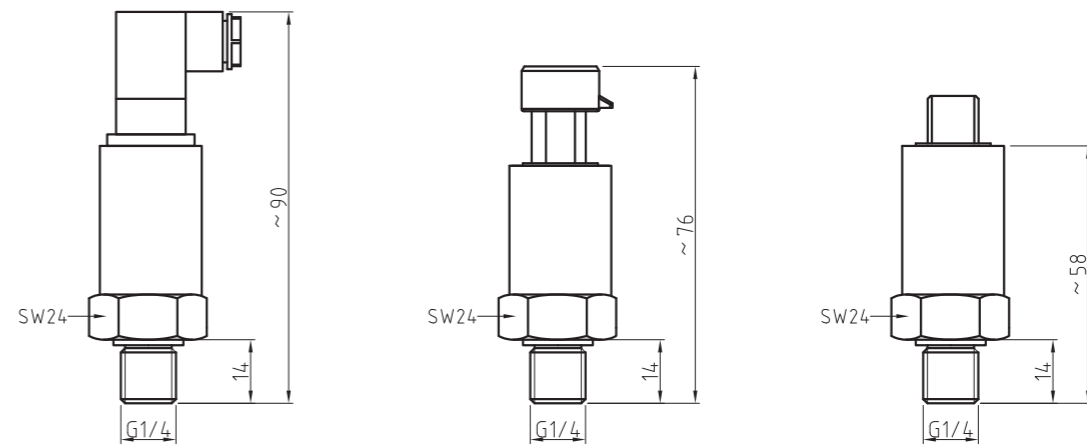


### Technical Specifications

pressure range	0~2bar...600bar[1]				
pressure type	gauge (G)				
overpressure	150%FS				
output signal	4~20mA	0-10Vdc	0-5Vdc	1-5Vdc	0.5~4.5Vdc
power supply	10~30Vdc	10~30Vdc			5Vdc(ratio)
accuracy	0.5%FS(typ.)			1.0%FS(max.)	
long-term stability	0.5%FS/year(typ.)			1.0%FS/year(max.)	
temp.coefficient of zero	$\pm 0.05\%FS/^{\circ}C$ (typ.)			$\pm 0.1\%FS/^{\circ}C$ (max.)	
temp.coefficient of span	$\pm 0.05\%FS/^{\circ}C$ (typ.)			$\pm 0.1\%FS/^{\circ}C$ (max.)	
compensated temperature range	-10~+80 °C				
operating temperature range	-40~+100 °C				
storage temperature range	-40~+100 °C				
Insulating resistance	$\geq 100M\Omega@100Vdc$				
load resistance	$R \leq (U-10)/0.02$ (for 4/20mA)		$R > 100k\Omega$ (for vottage output)		
electrical interface	packard, DIN43650, plug connection, cable connection, waterproof outlet				
pressure interface	M20x1.5, G1/4, G1/2, 1/4NPT, 1/2NPT, 7/16-20UNF (customer request)				
material of pressure membrane	ceramic				
material of housing	1Cr18Ni9Ti stainless steel				
response time(10%~90%)	$\leq 10ms$				
shock/impact	10gRMS,(20~2000)Hz / 100g,11ms				
protection	IP65				
certification	CE ,Ex ,ROHS				
EMC	EMI:EN50081-1/-2, EMS: EN50082-2				

note:  
[1]: 1MPa=10bar; 1bar=14.5psi

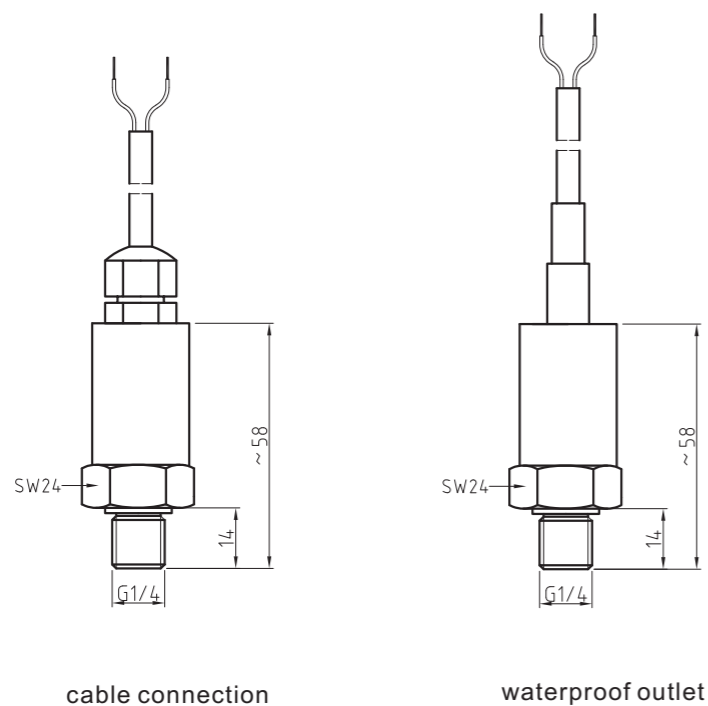
### Dimensions(mm)



DIN43650

packard

plug connection



Wiring

	Pin	Define	Cable
Packard plug	A	GND	Black
	B	Vcc(+)	Red
	C	Signal(+)	Blue/Green
Hirschmann	Pin1	Vcc(+)	Red
	Pin2	GND	Black
	Pin3	Signal(+) Shield	Blue/Green Yellow
Direct lead	Define		Cable
	Vcc(+)		Red
	Signal(+)		Blue/Green
	GND		Black
	Shield		Yellow

Ordering code

GPT230		Pressure Sensor
Code	0/x	Pressure range
		0~2bar...600bar[1]
Code	M	Unit
	B	MPa
	P	Bar
		Psi
Code	G	Pressure type
	S	gauge
		absolute
Code	T1	Output signal
	T2	4-20mA
	T3	0-5Vdc
	T4	1-5Vdc
	T5	0-10Vdc
		0.5-4.5Vdc
Code	V1	power supply
	V2	12Vdc
	V3	24Vdc
	V4	10~30Vdc
		5V
Code	A1	accuracy
	A2	1%FS
		0.5%FS
Code	B1	Electrical interface
	B2	packard
	B3	DIN43650
	B4	cable connection
	B5	plug-in connector
		waterproof outlet
Code	S1	Housing Material
	S2	304 SS
		316L SS
Code	C1	Pressure interface
	C2	M20x1.5(male)
	C3	G1/4(male)
	C4	G1/2(male)
	Cx	1/4NPT(male)
		other
Code	E	Explosion-proof function
	O	Ex I explosion-proof
		non-explosion-proof