Pressure and Temperature Sensor

GAMICOS

GPT200T

PRODUCT OVERVIEW ///

GPT200T pressure and temperature sensor adopts our high reliable pressure sensor and PT100 as core sensing components. After temperature compensation, digital circuit correction and signal conditioning, it can achieve real-time measurement of pressure and temperature. The product has high accuracy, fast response, steady output and reliable performance. Multiple output methods are available, and special demands can be customized. The shell is made of stainless steel and is widely used in the field of industrial automation control.
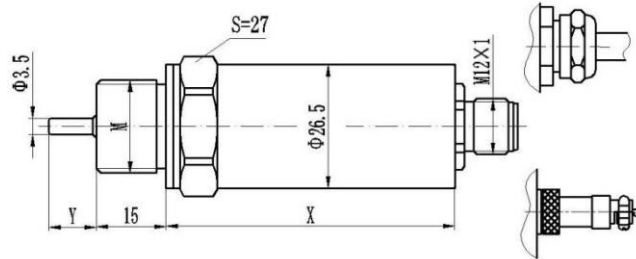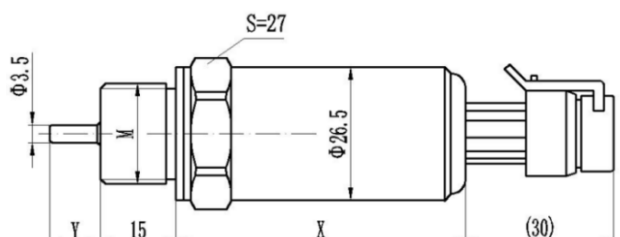
MAIN FEATURES ///

■ Simultaneous acquisition of pressure and temperature parameters

■ Quick response

■ Strong anti–interference, high stability and low drift

■ Multiple outputs are available

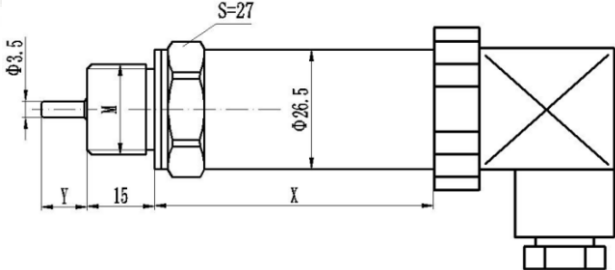## APPLICATION ///

■ Fire water affairs

■ Chemical production

■ Intelligent manufacturing

■ Process control system

DIMENSION ///

Product appearance	Electrical interface
	Cable connection Plug connection
	Packard

Product appearance	Electrical interface
	Hirschmann

TECHNICAL PARAMETERS ////

Pressure range（MPa）	0MPa～1MPa ...10MPa（OEM）		
Temperature parameter（℃）	–20~100℃		
Pressure type	Gauge,absolute pressure		
Output signal	4～20mA		
	0～5V, 0.5–4.5V, 0–10V		
	RS485		
Temperature accuracy	±1℃	±0.5℃	OEM
Pressure accuracy（FS%）	0.1（OEM）	0.25（OEM）	0.5
Non linearity（FS%）	≤0.1	≤0.2	≤0.4
Hysteresis, repeatability（FS%）	≤0.05	≤0.05	≤0.1
Zero point and sensitivity temperature drift（%FS/℃）	≤0.01	≤0.03	≤0.05
Long–term stability(%FS/年)	≤0.1	≤0.2	≤0.5
Working voltage（VDC）	+12～+30（The calibration value is +24）		
Medium temperature	–40℃～+150℃		
Environment temperature	–40℃～+85℃		
Storage temperature	–40℃～+125℃		
Overload capacity	≤2 times（<10MPa）；≤1.5 times（≥10MPa）		
Load resistance（Ω）	Current（2线）：R≤（U–10）/0.02–RD（U：Supply voltage, RD：Cable internal resistance）		
Response time	≤3ms（10%～90%）		
Measured medium	Fluids compatible with 316L stainless steel or ceramic		
Diaphragm material	316L stainless steel		
Shell material	304,316L		
Protection grade	IP65（OEM）		
Vibration environment	20g（@10Hz～2000Hz）		
Impact resistance	100g/11ms		
Service life	＞10 million load cycles (within measuring range)		

GPT200T							
	Code	Pressure range					
	0/X	−0.1...0~0.01...10MPa/−20~100℃					
		Code	Pressure type				
		G	Gauge				
		S	Seal gauge pressure				
		A	Absolute gauge				
			Code	Output			
			T1	4−20mA			
			T2	0−5VDC			
			T3	RS485			
			T4	0−10VDC			
			T5	0.5−4.5VDC			
				Code	Power supply		
				V1	12VDC		
				V2	24VDC		
				V3	12−30VDC		
				V4	5V（T5 0.5−4.5VDC output only）		
					Code	Accuracy	
					A1	0.1%F.S.（OEM）	
					A2	0.25%F.S.（OEM）	
					A3	0.5%F.S.	
						Code	Electrical interface
						B1	Hirschmann
						B2	Cable connection
						B3	Plug connection
						B4	Packard
							Code	Pressure interface
							C1	M20*1.5
							C2	G1/4
							C3	G1/2
							C4	1/4NPT
							CX	other

(Pressure interface sub-table:)

Code	Pressure interface
C1	M20*1.5
C2	G1/4
C3	G1/2
C4	1/4NPT
CX	other

| GPT200T | 0/1MPa0/80℃ | A | T2 | V2 | A1 | B1 | C2 | |