

Pressure Transmitter for Mechanical Equipment

GaMicos

GPT430

PRODUCT OVERVIEW

GPT430 is a small size rod shape pressure transmitter. It adopts high reliability metal sputtered thin film pressure sensor as the sensing element, after the process of temperature compensation, digital circuit correction and signal conditioning, it outputs standard industrial network signal. The diaphragm is 17-4PH flexible stainless steel, which is friendly with most of the measured medium. After careful design, component screening, process verification curing, cyclic loading stress relief, aging, environmental simulation testing and other processes, to ensure that each product is stable and reliable.

MAIN FEATURES

- Integrated design, anti-interference
- Optional output signals
- 17-4PH diaphragm
- Fully welded structure
- Wide temperature range
- Good vibration resistance
- Good overload performance

APPLICATION

- Metallurgy
- Petrochemical industry
- Aerospace
- Engineering equipment
- Oil pipeline
- Drilling exploration
- Gas network

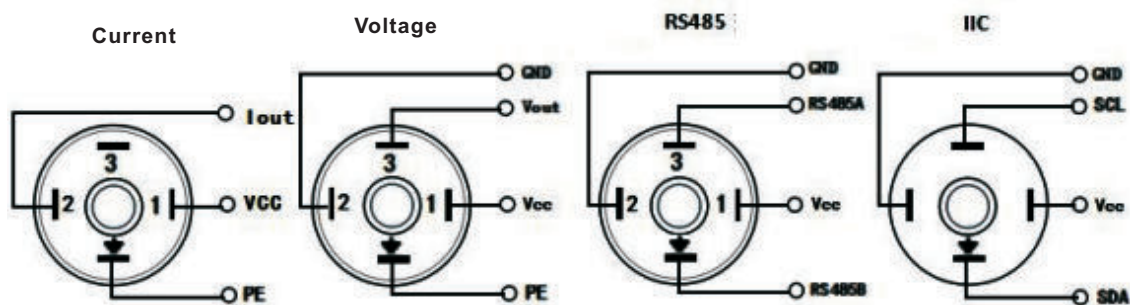


TECHNICAL PARAMETERS

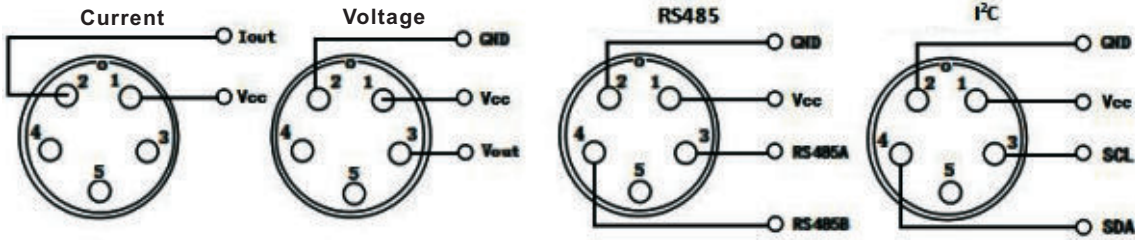
Range(Mpa)	0MPa~1MPa ...150MPa		
Pressure type	Gauge, absolute pressure		
Output signal	4~20mA		
	0~5V, 0.5-4.5V, 0-10V		
	RS485		
	I ² C		
Accuracy (FS%)	0.1 (OEM)	0.25 (OEM)	0.5
Non-linearity (FS%)	≤0.1	≤0.2	≤0.4
Hysteresis, repeatability (FS%)	≤0.05	≤0.05	≤0.1
Zero and Sensitivity Temperature Drift (%FS/C)	≤0.01	≤0.03	≤0.05
Long-term stability(%FS/Yr)	≤0.1	≤0.2	≤0.5
Operating voltage (VDC)	+12~+30 (Calibration value: +24)		
Medium temperature	-40℃~+150℃		
Environment temperature	-40℃~+85℃		
Storage temperature	-40℃~+125℃		
Overload ability	≤200%FS (0~60MPa) ≤150%FS (70~200MPa)		
Load resistance (Ω)	Current(2 wire): $R \leq (U-10)/0.02-RD$ (U:Voltage,RD:Cable internal resistance)		
Response time	≤3ms (10%~90%)		
Medium	Liquids compatible with 17-4PH		
Diaphragm material	17-4PH stainless steel		
Housing material	304、316L		
Protection grade	IP65 (OEM)		
Vibration environment	20g (@10Hz~2000Hz)		
Impact resistance	100g/11ms		
Service life	>10 million times overload pressure cycles (Within pressure range)		

ELECTRICAL INTERFACE

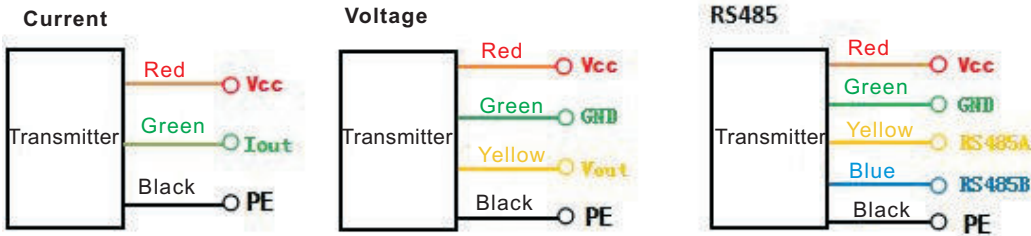
Hirschmann



Plug-in



Cable connection



DIMENSION

Appearance	Electrical interface	Characteristics
	Cable connection Plug-in	Shell welding: X=55 RS485: X=75
	Cable connection Plug-in	Shell welding
	Hirschmann	Shell welding: X=38 RS485, X=68
	Cable connection	Shell welding, high temperature type
	Double thread	Shell welding, X=69 RS485, X=94

ORDERING GUIDE

GPT430	Pressure transmitter							
	Code	Range						
	0 / X	0~1...150MPa						
	Code	Pressure type						
	G	Gauge						
	A	Absolute						
	Code	Output						
	T1	4-20mA						
	T2	0-5VDC						
	T3	0-10VDC						
	T4	RS485						
	T5	I ² C						
	Code	Power supply						
	V1	12-30VDC						
	V2	6-30VDC						
	V3	5VDC						
	V4	3.3-5VDC (limits to T5: I ² C output)						
	Code	Accuracy						
	A1	0.1%F.S. (OEM)						
	A2	0.25%F.S. (Optional)						
	A3	0.5%F.S.						
	Code	Electrical interface						
	B1	Hirschmann						
	B2	Plug-in						
	B3	Direct cable						
	B4	Direct cable (IP68)						
	B5	OEM (Note directly)						
	Code	Pressure interface						
	C1	M20*1.5						
	C2	G1/4						
	C3	G1/2						
	C4	1/4NPT						
	CX	Others						
GPT430	0/5MPa	G	T2	V1	A1	B2	C2	