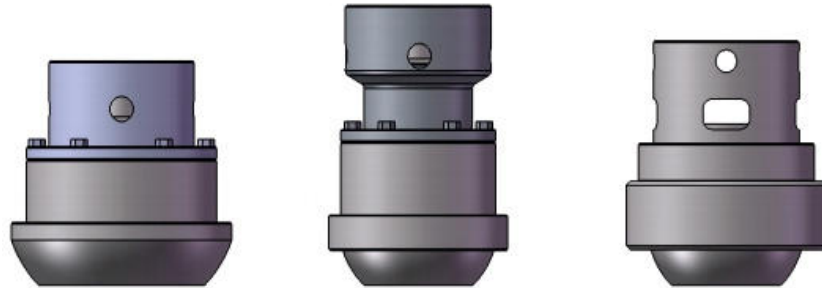


GPT400



PRODUCT OVERVIEW

The Union-type pressure transmitter utilizes high-precision resistance strain gauge technology and a rational mechanical force transmission design. Its integrated structure, which contacts the medium, accurately captures subtle pressure changes in drilling and fracturing operations, helping operators quickly adjust medium pressure to ensure safe and stable equipment operation. The product employs a metal strain gauge measurement mode. Its compact structure is resistant to vibration, durable against fatigue from frequent shocks and overloads, and withstands abrasion from sand, gravel, crude oil, sludge, and mortar. It is suitable for harsh conditions such as gravel-mud grouting, oil drilling fracturing and well killing, drilling reinforcement, and land reclamation sand pumping. It meets the measurement needs of viscous and adhesive media, offering advantages like high response, high accuracy, high overload capacity, corrosion resistance, and excellent cost-performance.

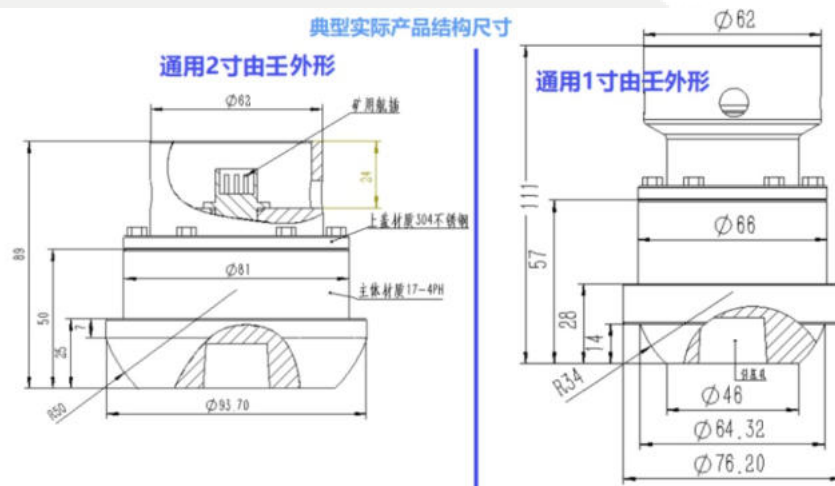
MAIN FEATURES

- Multiple optional elastic body materials for flexible adaptation to complex corrosive and abrasive conditions.
- Robust and durable structure, resistant to vibration and frequent shocks, suitable for harsh industrial environments.
- Wider pressure port, specifically designed for measuring mixed adhesive media.
- Fully welded integrated or assembled sealed stainless steel structure, suitable for abrasive and highly corrosive media.
- Supports customer customization, covering multiple dimensions such as range, material, accuracy, and connection.
- Integrated structural design for easy installation.

APPLICATION

- Oil & Gas Drilling, Mud Pumps / Mud Logging
- Fracturing & Cementing, Acidizing Operations
- Wellhead Measurement, Risers & Stimulation Engineering
- Blowout Prevention Equipment, Sand Bypassing & Land Reclamation
- Drilling Reinforcement, Crude Oil Sludge Treatment
- Other harsh industrial environments requiring pressure measurement

DIMENSION



TECHNICAL PARAMETERS

Range	0MPa~1MPa ...150MPa	
Pressure type	Gauge	
Output signals	4~20mA	
	0~5V、0.5-4.5V、0-10V	
	RS485	
Accuracy (FS%)	0.2 (OEM)	0.5
Non-linearity (FS%)	≤0.2	≤0.4
Hysteresis & Repeatability (FS%)	≤0.05	≤0.1
Thermal Drift (Zero & Sensitivity) (%FS/°C)	≤0.03	≤0.05
Long-term stability(%FS/年)	≤0.2	≤0.5
Power supply (VDC)	+12~+30 (Calibration value+24)	
Medium temperature	-40°C~+100°C	
Environmental temperature	-40°C~+85°C	
Storage temperature	-40°C~+125°C	
Overload Capacity	≤300%FS (0~60MPa) ≤200%FS (70~100MPa)	
Load Resistance (Ω)	Current (2-wire) : $R \leq (U-10) / 0.02 - RD$ (U: Supply voltage, RD: Cable resistance)	
Response time	≤3ms (10%~90%)	
Medium	Crude oil, drilling fluid, mud, mortar, colloids, etc.	
Diaphragm material	17-4PH,15-5PH,C276等	
Housing material	4/6-pin Aviation Plug	
Protection grade	IP66(OEM)	
Vibration	20g(@10Hz~2000Hz)	
Shock resistance	100g/11ms	
Service life	> 10 million load cycles (within measuring range)	

ORDERING GUIDE

GPT400	Union Pressure Transmitter						
	Code	Range					
	0/X	0~1...150MPa					
	Code	Dimension					
	Q1	1 inch					
	Q2	2 inch					
	Q3	Other					
	Code	Output					
	T1	4-20mA					
	T2	0-5VDC					
	T3	mV					
	T4	RS485					
	T5	Other					
	Code	Power supply					
	V1	12-30VDC					
	V2	24VDC					
	V3	5VDC					
	Code	Accuracy					
	A1	0.2%F.S. (Optional)					
	A2	0.5%F.S. (Optional)					
	A3	1%F.S.					
	Code	Electrical interface					
	B1	Aviation plug					
	B2	Direct lead					
	B3	Submersible Cable Outlet					
	B5	OEM (Specify directly)					
GPT400	0/50MPa	Q1	T1	V2	A1	B3	