

GPD500 SERIES PRESSURE TRANSMITTER WITH DISPLAY

FEATURES

- ◎ LED or LCD display
- ◎ Isolated explosion-proof, IP66 protection
- ◎ Range migration, zero clearance
- ◎ Designed for polluted, humid, flammable and explosive environments



INTRODUCTION

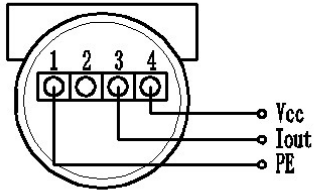
The GPD500 series pressure transmitters are designed to meet the specific requirements of various industries. They are equipped with highly reliable sensing cores, such as silicon piezoresistive, ceramic capacitive, sapphire, and sputtered film pressure sensors. After temperature compensation, digital circuit correction, and signal conditioning, the transmitters output standard signals suitable for industrial applications and networking. The production process upholds the rigorous standards and precise quality control that the company has maintained for over 20 years. Each product undergoes a comprehensive development process, including careful design, component selection, process validation, cyclic loading, stress relief, aging tests, and environmental simulations, to ensure the stability and reliability of every unit.

SPECIFICATIONS

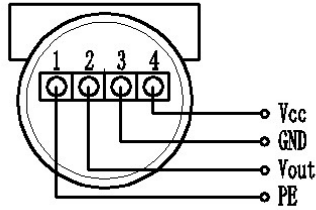
Pressure type	Gauge pressure, Absolute pressure, Sealed pressure
Pressure range	-0.1MPa~0kPa~10kPa...100MPa
Power supply	15VDC ~ 30VDC (Standard 24VDC)
Output signal	4mA ~ 20mA(Optional extra HART protocol) RS485(Optional extra 4mA ~ 20mA output)
Overload pressure	≤ 200%(<10MPa), ≤ 150%(≥ 10MPa)
Response time	≤ 3ms(10%~90%)
Display type	4-bit LCD or LED
Media temperature	-40℃~85℃
Compensation temperature	0 ~ +50 (≤ 200kPa) , -10℃ ~ 70℃ (> 200kPa)
Accuracy	0.1%FS, 0.25%FS, 0.5%FS
Diaphragm material	316L, titanium alloy or ceramic
Measuring medium	Fluid compatible with 304, 316L and ceramics
Protection	IP66

ELECTRICAL CONNECTION

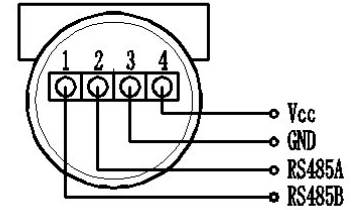
Current output



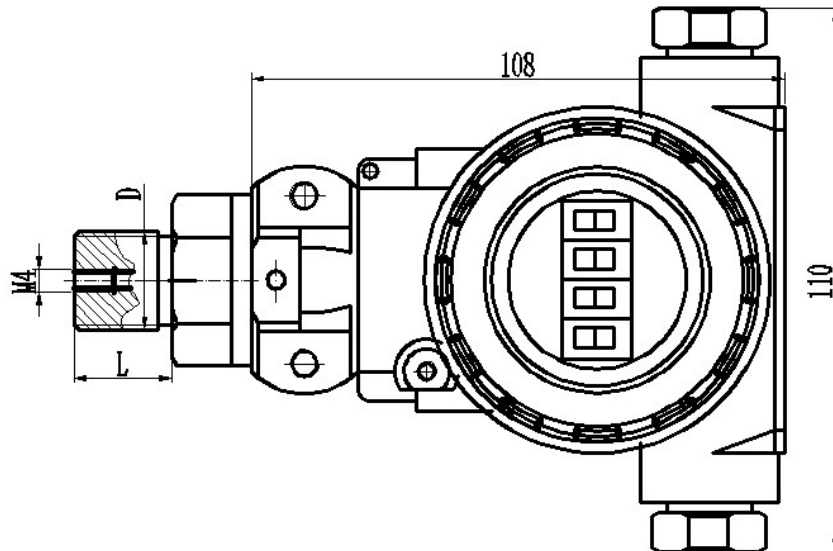
Voltage output



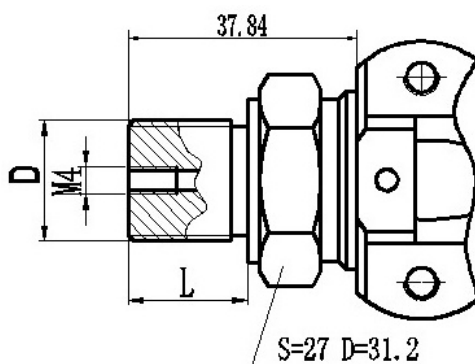
RS485 output



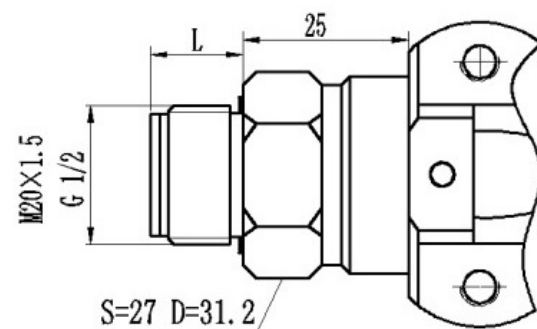
MECHANICAL CONNECTION



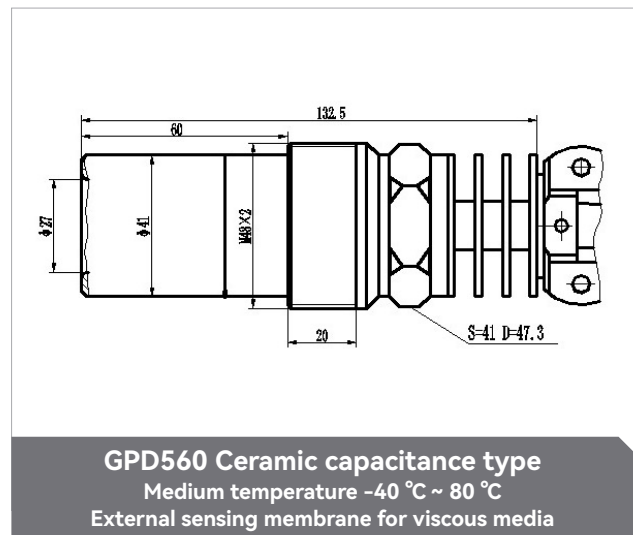
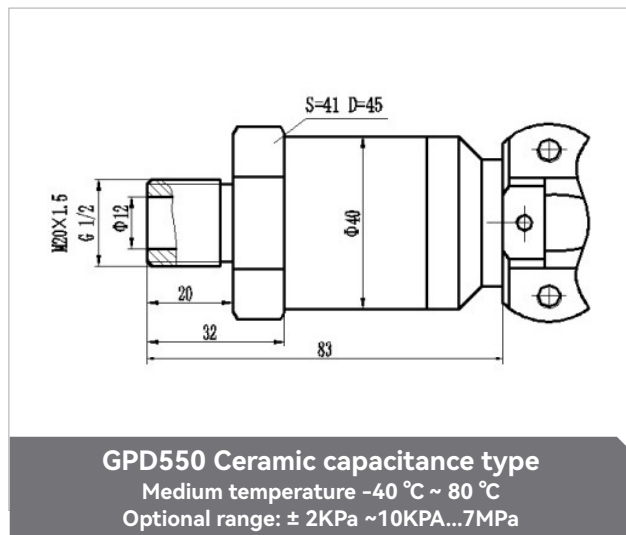
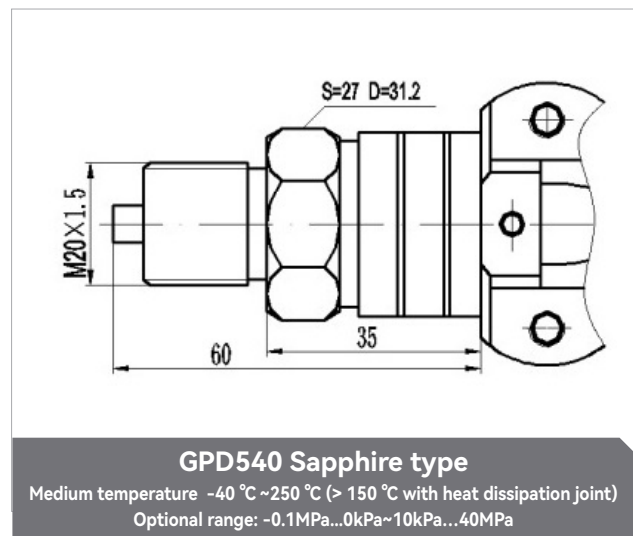
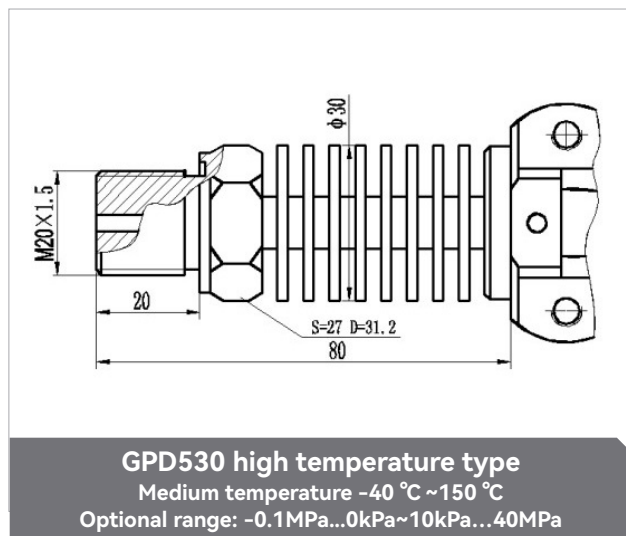
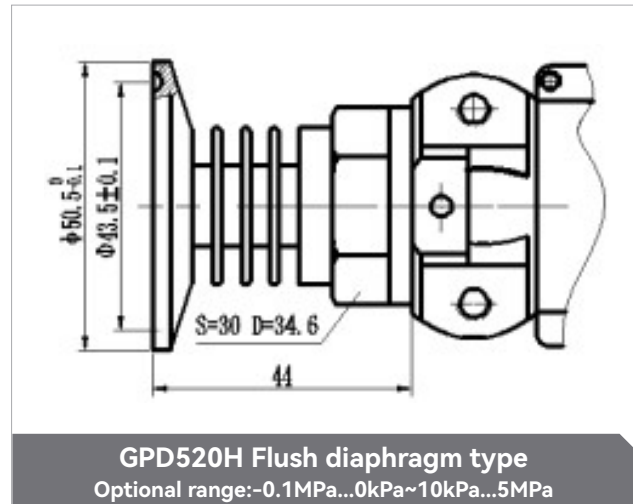
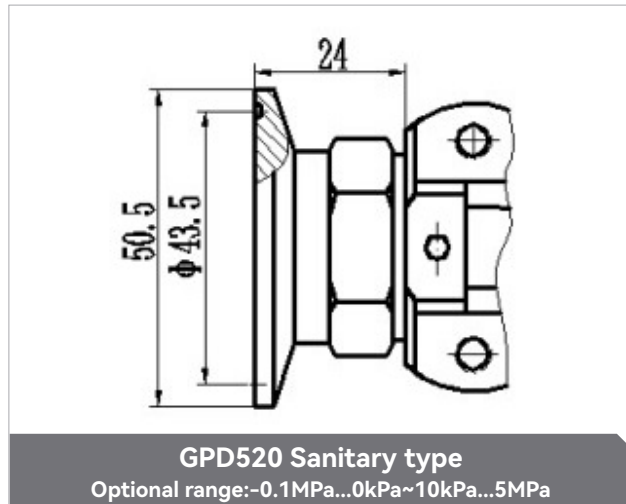
LTEM	SIZE D	SIZE L
1	M20X1.5	20
2	G1/2	20
3	M16X1	15
4	M14X1.5	15
5	G1/4	14
6	M12X1.25	14
7	1/2NPT	18
8	M24X1.5	20



GPD500 General type



GPD500F Flush diaphragm type
Optional range: -0.1MPa...0kPa~10kPa...10MPa



ORDER FORMAT

GPD500 - H - M11B - A - M20 - MA

Model	
GPD500	GPD500F
GPD520	GPD520F
GPD530	GPD540
GPD550	GPD560

Accuracy	Code
0.1%FS	C
0.25%FS	H
0.5%FS	M

Pressure Range	Code
0~Xbar	XBar
0~XKPa	XKPa
0~XMPa	XMPa
0~XPSI	XPSI
-x~Xbar	MxXB
-x~XKPa	MxXK

Pressure type	Code
Gauge pressure	Null
Absolute pressure	A
Sealed pressure	S

Code	Output signal
MA	4~20mA
V1	0~10V
R4	RS485
HT	HART protocol
I2	I ² C protocol

Code	Thread size
G1/2	G1/2
G1/4	G1/4
1/2NPT	1/2NPT
1/4NPT	1/4NPT
M20	M20X1.5