

GPE400 SERIES GENERAL TYPE PRESSURE TRANSMITTER

FEATURES

- ⊙ Easy installation
- ⊙ Designed for various industries
- ⊙ Full range options
- ⊙ Various structures optional



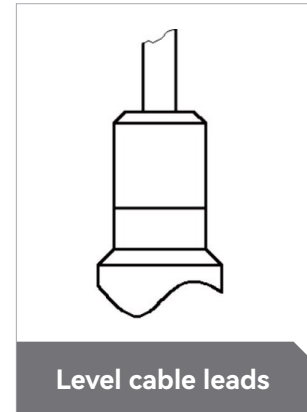
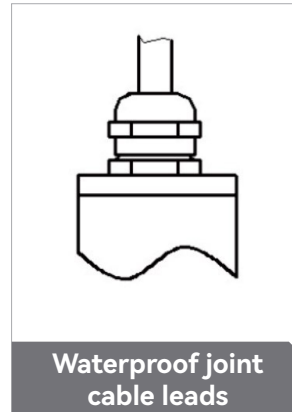
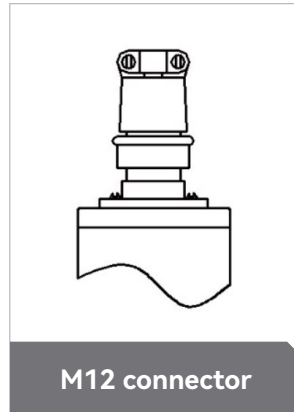
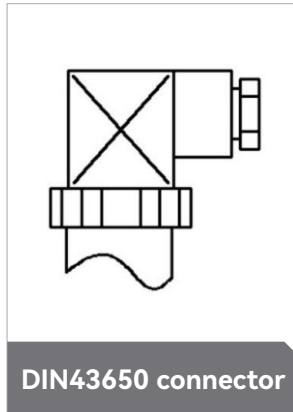
INTRODUCTION

The GPE400 series pressure transmitters utilize highly reliable silicon piezoresistive pressure sensors as the core sensing element. Through temperature compensation, digital circuit correction, and signal conditioning, they output standard signals for industrial applications and networking. Each product undergoes a thorough development process, including careful design, component selection, process validation and curing, cyclic loading, stress relief, aging, environmental simulation testing, and more, ensuring the stability and reliability of every unit.

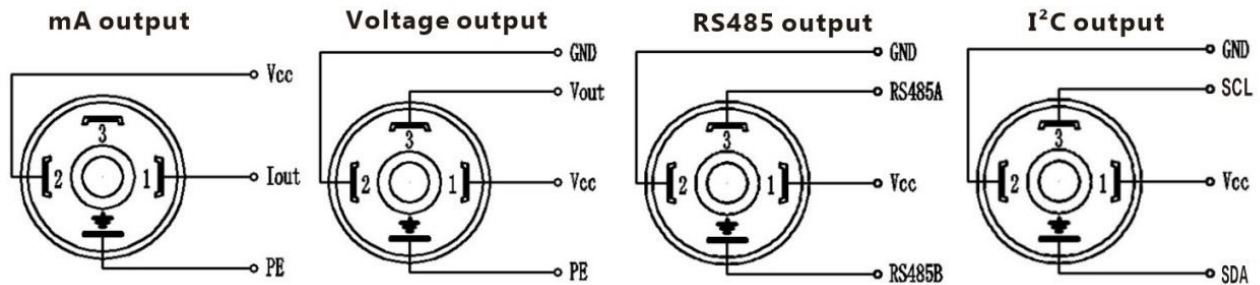
SPECIFICATIONS

Pressure type	Gauge pressure, Absolute pressure, Sealed pressure
Pressure range	-0.1MPa~0kPa~10kPa...100MPa
Power supply	12VDC ~ 30VDC (Standard 24VDC)
Output signal	4mA ~ 20mA(Optional extra HART protocol), RS485, I ² C, 0V~10V (Others on request)
Overload pressure	≤ 200%(<10MPa), ≤ 150%(≥ 10MPa)
Response time	≤ 3ms(10%~90%)
Media temperature	-40°C ~85°C
Pressure type	Gauge pressure, Absolute pressure, Sealed pressure
Accuracy	0.1%FS, 0.25%FS, 0.5%FS
Measuring medium	Fluid compatible with 304, 316L and ceramics
Diaphragm material	316L, Titanium alloy or ceramics optional
Interface	304, 316L optional
Protection	IP65, Optional IP68

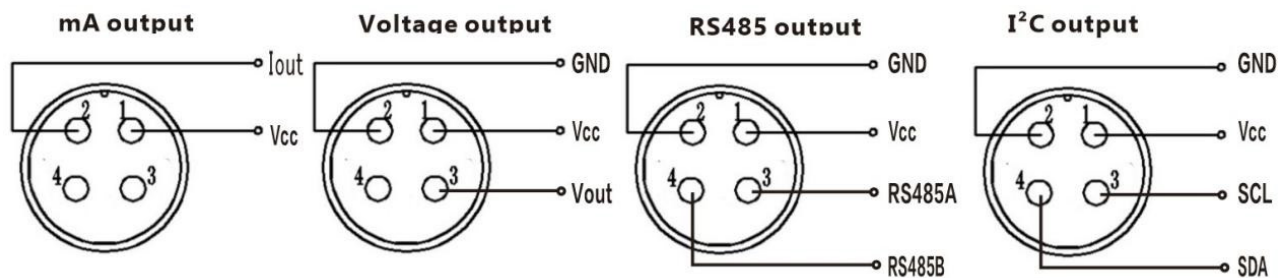
ELECTRICAL CONNECTION



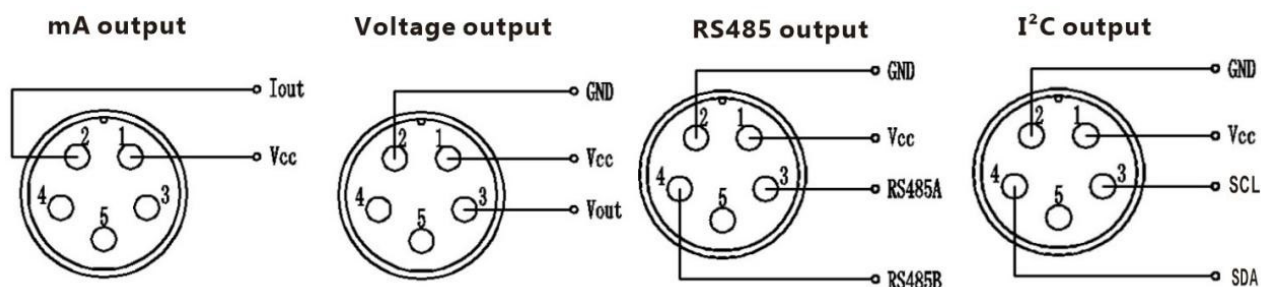
DIN43650 CONNECTOR WIRING



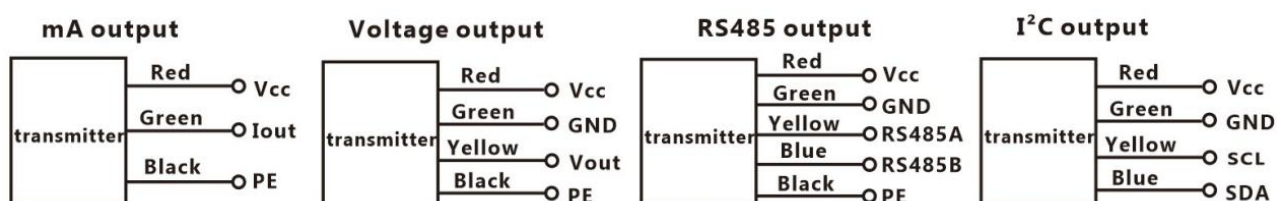
M12 CONNECTOR 4 PIN WIRING



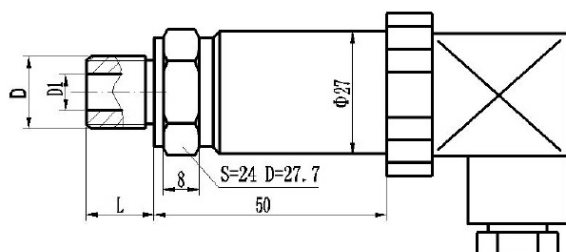
M12 CONNECTOR 5 PIN WIRING



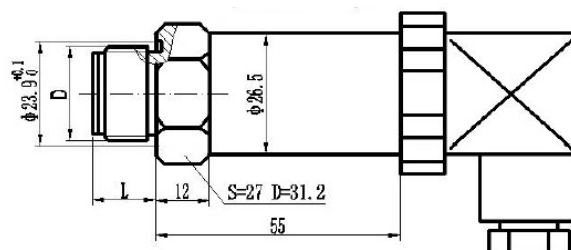
CABLE LEADS WIRING



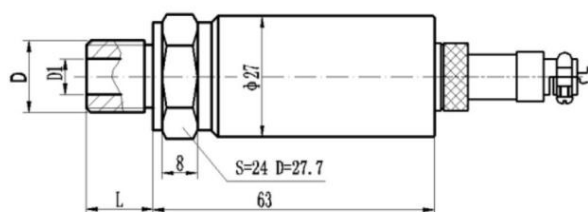
STRUCTURES



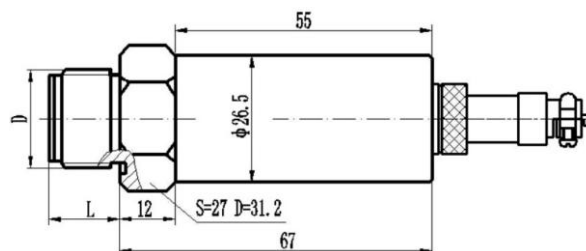
GPE410 DIN43650 connector



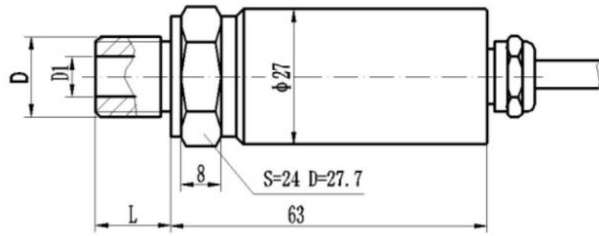
GPE410F DIN43650 connector flush diaphragm



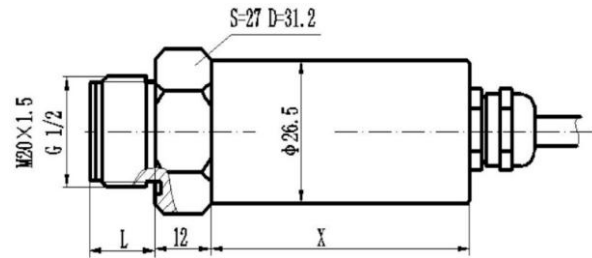
GPE420 M12 connector



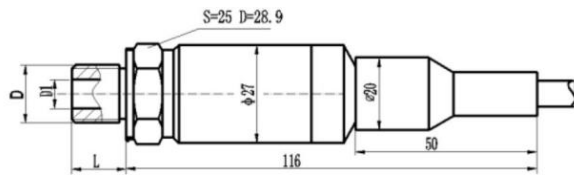
GPE420F M12 connector flush diaphragm



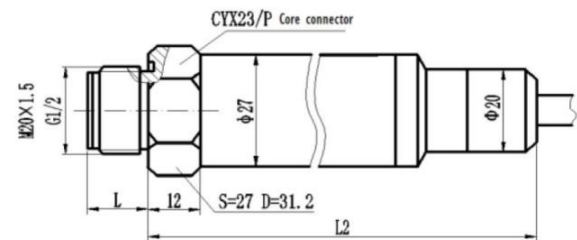
GPE430 waterproof joint cable lead



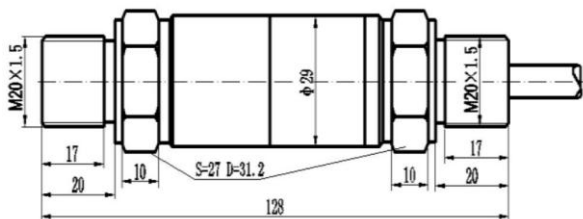
GPE430F waterproof joint cable lead flush diaphragm



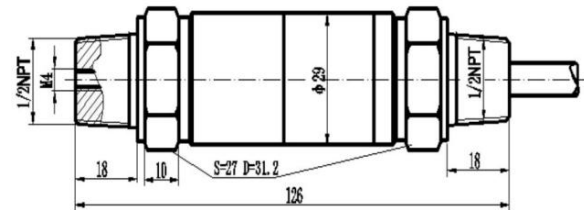
GPE440 level cable lead



GPE440F level cable lead flush diaphragm



GPE450 double threads



GPE460 double taper threads

MECHANICAL CONNECTION

SIZE D	LENGTH L	SIZE D	LENGTH L	SIZE D	LENGTH L	SIZE D	LENGTH L
M22x1.5	15	M16x1.5	15	M8X1	12	3/8 PT	15
G1/2	15	M14X1.5	15	G1/8	12	1/4 NPT	15
M20X1.5	15	G1/4	15	1/2NPT	18	1/4 PT	15
M18X1.5	15	M12X1	15	1/2PT	18	1/8 NPT	12
G3/8	15	M10X1	12	3/8 NPT	15	1/8 PT	12

ORDER FORMAT

GPE410F - H - M11B - A - G1/2 - MA - D1

Model	
GPE410	GPE410F
GPE420	GPE420F
GPE430	GPE430F
GPE440	GPE440F
GPE450	GPE460

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	Customization
Null	Standard version
D1	4-digit LCD display*
D2	4-digit LED display*
*Only available for 4~20mA output signal	

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