

GPD300 SERIES PRESSURE TRANSMITTER WITH DISPLAY

FEATURES

- ◎ Monocrystalline silicon pressure core
- ◎ High accuracy and stability
- ◎ High overload performance
- ◎ Double-wire mode, 4~20mA HART protocol option
- ◎ No mechanical transmission components, anti-vibration
- ◎ Local adjustment of zero and pressure range



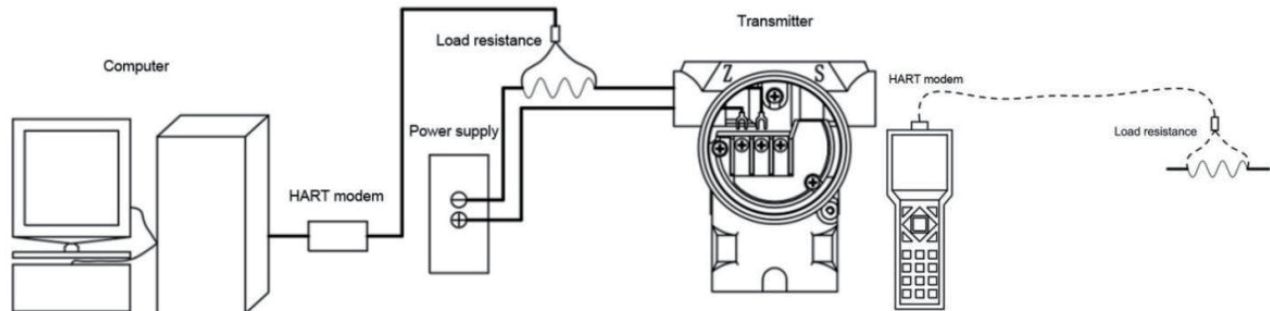
INTRODUCTION

The GPD300 series pressure transmitter utilizes a high-performance monocrystalline silicon pressure sensor chip. The sensor's signal is processed by a specialized module, converting it into a standard output signal. After undergoing extensive aging and stability testing, the product's performance is highly stable and reliable, making it suitable for harsh outdoor environments. Additionally, it offers on-site display capabilities for pressure, zero point, and full-range adjustments. The GPD300's installation port can be customized to meet user specifications and is fully compatible with transmitters from other brands. This product is widely used across industries such as industrial process control, petroleum, chemical, and metallurgy.

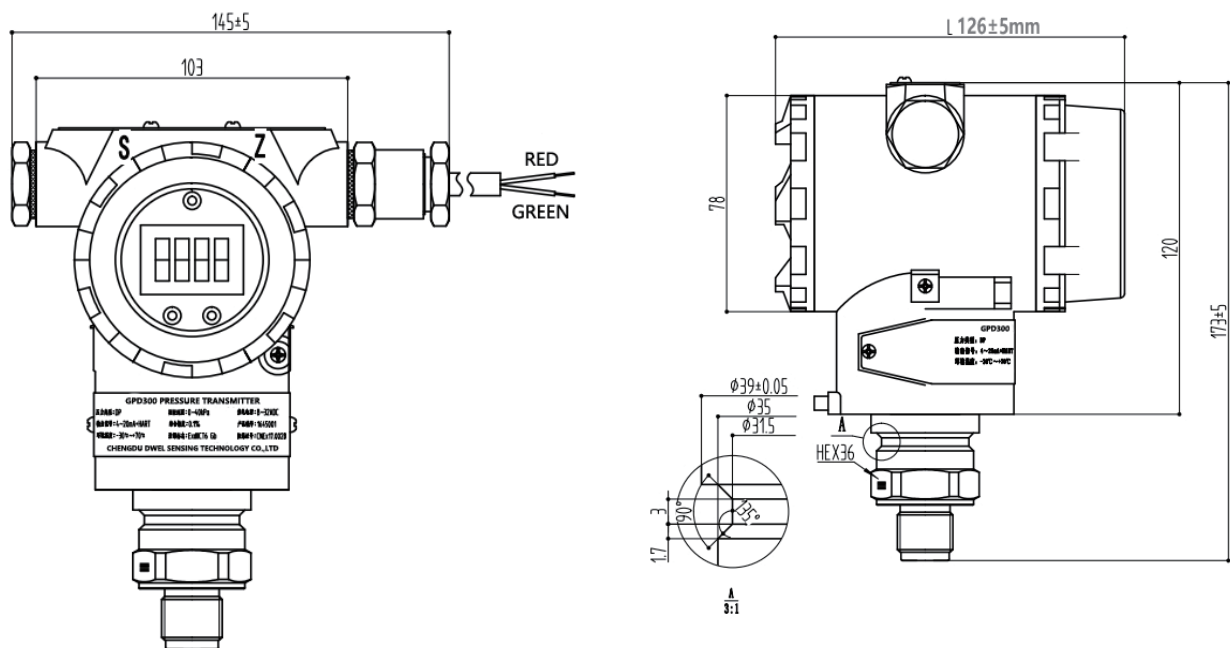
SPECIFICATIONS

Pressure type	Gauge pressure, Absolute pressure, Sealed pressure
Pressure range	0kPa~6kPa...40MPa
Power supply	10.5VDC ~ 45VDC (Standard 24VDC)
Output signal	4mA ~ 20mA(Optional extra HART protocol)
Overload pressure	≤ 200%(<10MPa), ≤ 150%(≥ 10MPa)
Response time	≤ 10ms(10%~90%) HART collects data from sensor: 0.1s HART outputs data: 0.5s
Media temperature	-40°C ~85°C
Accuracy	0.075%FS, 0.1%FS
Long-term stability	±0.1%FS/year
Measuring medium	Fluid compatible with 304 and 316L
Material	Housing cast aluminum alloy; isolation diaphragm 316L
Protection	IP67

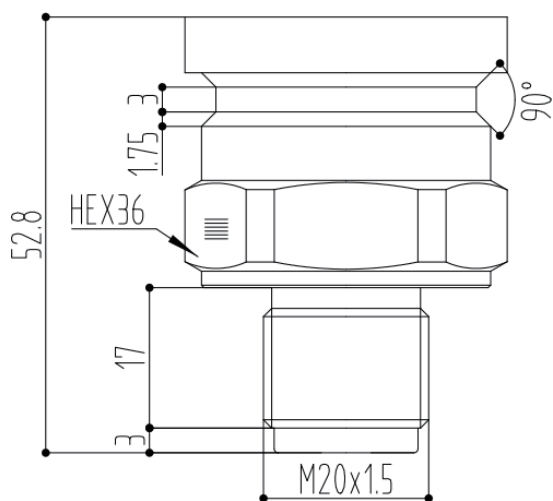
HART COMMUNICATION DIAGRAM



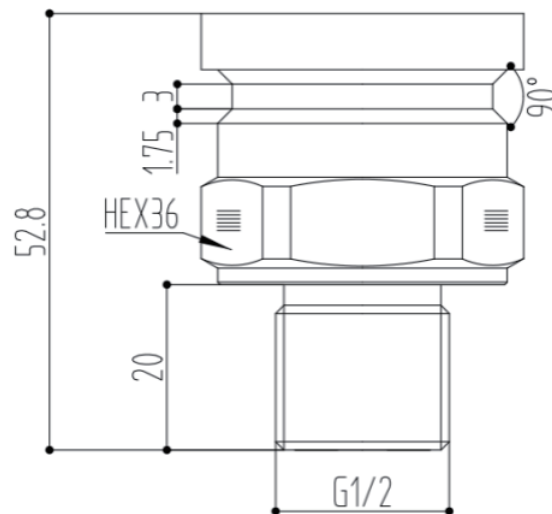
DIMENSION



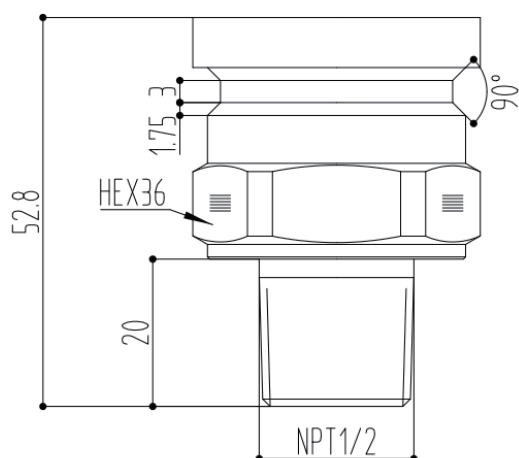
MECHANICAL CONNECTION



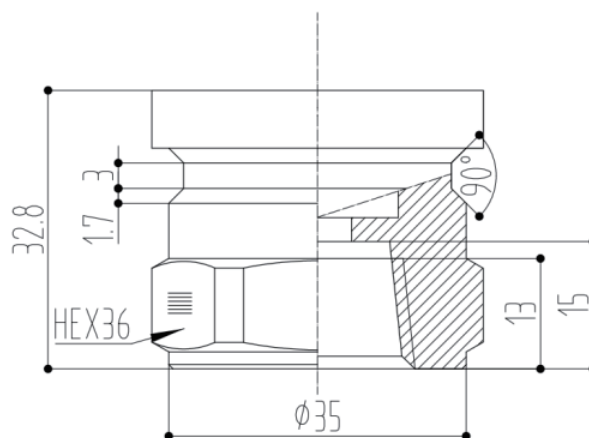
M20X1.5



G1/2

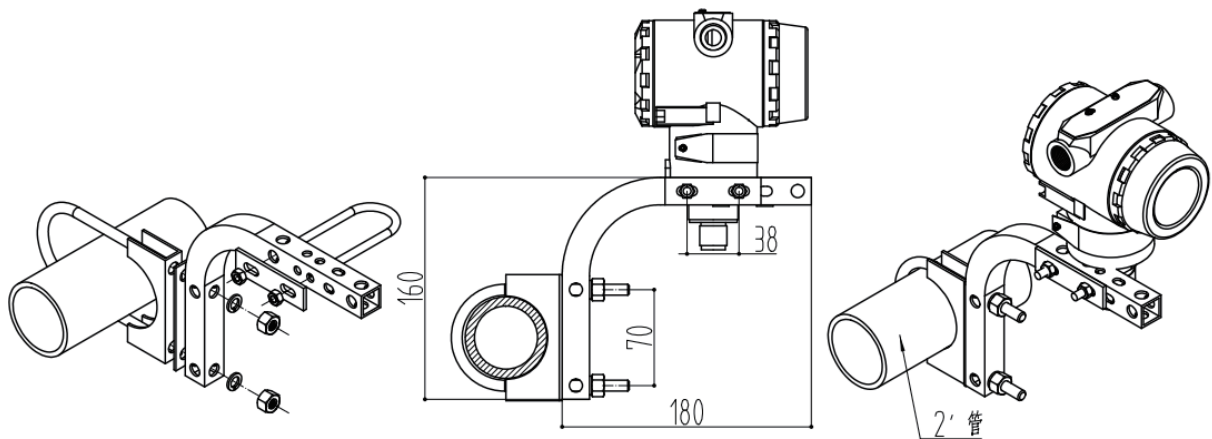


1/2NPT



1/2NPT(Female)

INSTALLATION



ORDER FORMAT

GPD300 - 100KPa - A - G1/2 - HC - D1

Pressure Range	Code
0~Xbar	XBar
0~XKPa	XKPa
0~XMPa	XMPa
0~XPSI	XPSI

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

Code	Thread size
G1/2	G1/2
G1/4	G1/4
1/2NPT	1/2NPT
F1/2NPT	1/2NPT Female
M20	M20X1.5
Others on request	

Electrical connection	Code
With display (M20X1.5)	D1
With display (NPT1/2 female)	D2
Without display (M20X1.5)	N1
Without display (NPT1/2 female)	N2

Code	Diaphragm material
Null	316L
HC	Hastelloy C