PRESSURE TRANSMITTER

"Flush Pressure Transmitter with Flange"

BT10-212



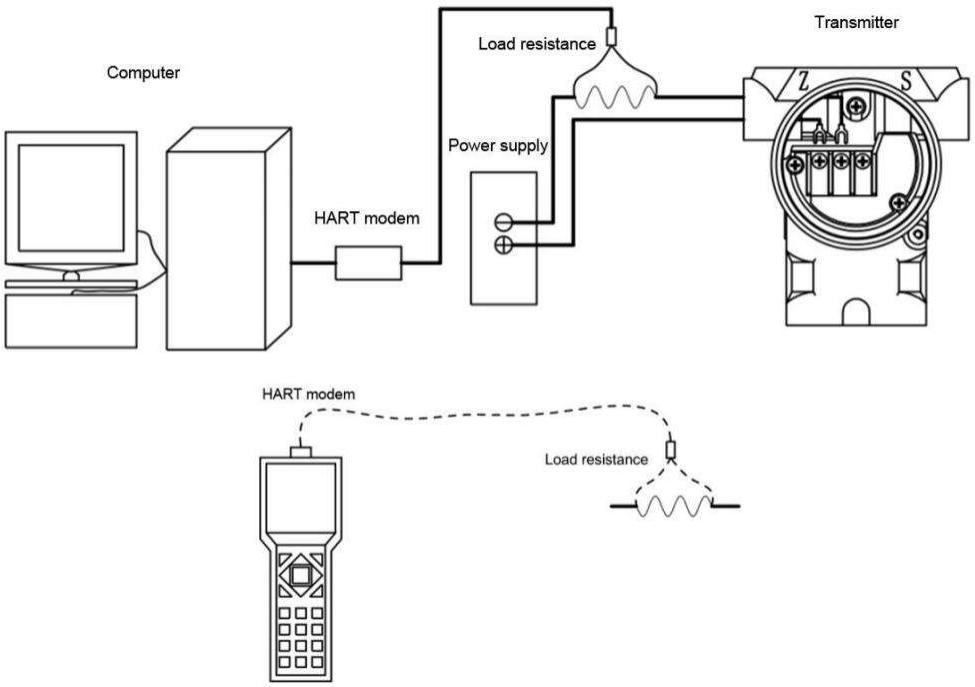
- 3051 or 2088 housing is optional
- Flange mounting
- Double-wire mode, 4～20mA analog output, HART® protocol data communication
- Intelligent LCD gauge outfit with backlight
- Diaphragm with large size, all-welded sealing, long-term reliable and durable
- Used for the pressure measurement for gas, liquid, steam
- Optional anticorrosion diaphragm (Tantalum, Hastelloy C, 316L, 316L sprayed with PTFE)
- Especially suitable for high temperature viscous liquid

BT10-212 Flush Pressure Transmitter with Flange is a type of flush product in order to meet the flange mounting requirement of the customer. This product adopts the imported diffuse silicon pressure sensitive element, and after the long-term aging and stability selecting, the product performance is stable and reliable.

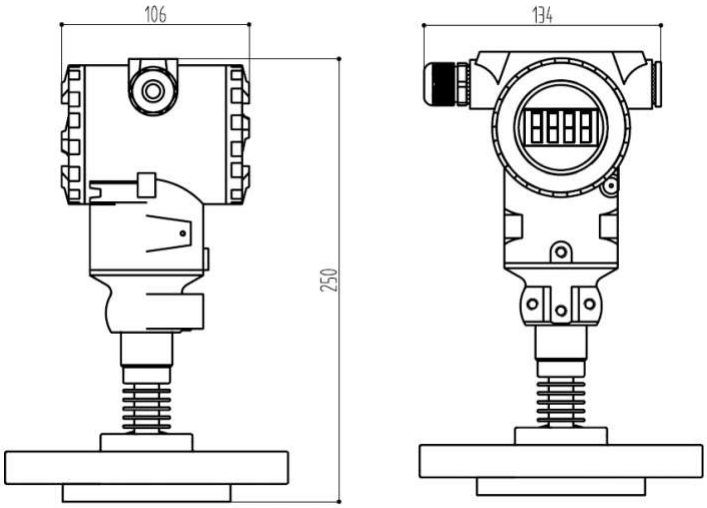
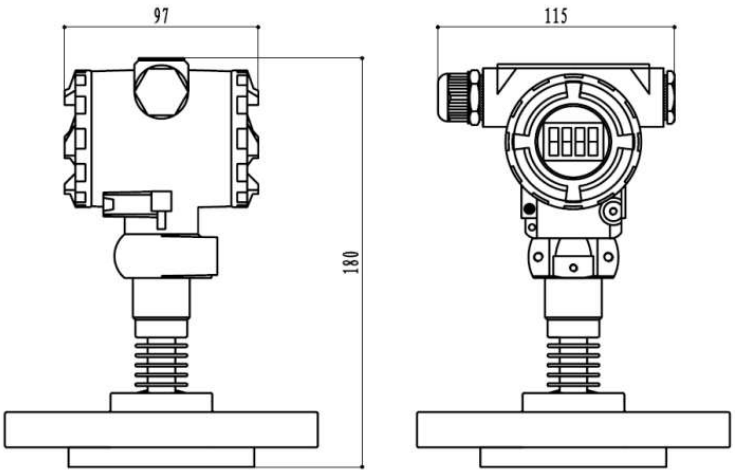
BT10-212 Flush Pressure Transmitter with Flange takes the international standard flange plate as the connection standard, and can realize the on-site flange mounting mode for the user. Because the stress diaphragm is exposed and senses the pressure directly, convenient for cleaning, and able to meet the moistureproof, waterproof, ex-proof and other severe working condition requirements, the products of this series are widely applied for the viscous media with particles in the fields such as industrial process control, petroleum, chemical industry, metallurgy etc.

TECHNICAL SPECIFICATIONS	
Pressure range	-1bar…0~0.002bar…100bar
Pressure reference	Gauge pressure, Sealed gauge pressure
Overpressure	150%FS
Supply and output	4-20mA, 4-20mA+HART (24V power supply)
Accuracy	±0.3%(typ.), ±0.5%FS(max.)
Ambient temperature	-30°C～80°C; with LCD gauge outfit -30°C～70°C
Medium temperature	-40°C ... +104°C
Storage temperature	-40°C ... +85°C
Zero temp. coefficient	±1%FS/55 °C
Full span temp. effect	±1%FS/55 °C
Insulation resistance	≥100MΩ/500VDC (200MΩ/250VDC)
Protection	IP65
Ex-proof grade	Exd II BT6 Gb
Long-term stability	±0.2%FS/year
Diaphragm material	316L (316L sprayed with PTFE, Hastelloy C, tantalum)
Filling liquid	Silicon oil
Housing material	Die-casting aluminum epoxy resin coating
Electrical connection	M20×1.5
Process connection	DN25 / DN50 / DN80
Weight	3.5kg (DN50)

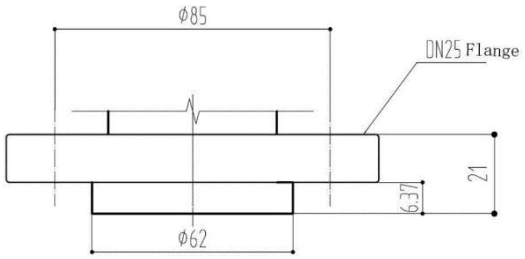
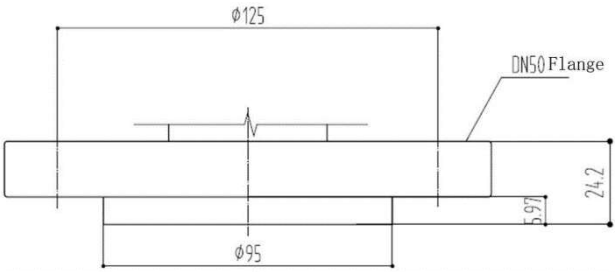
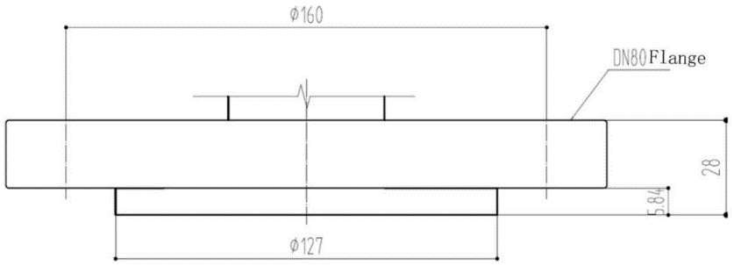
HART COMMUNICATION CONNECTION DIAGRAM



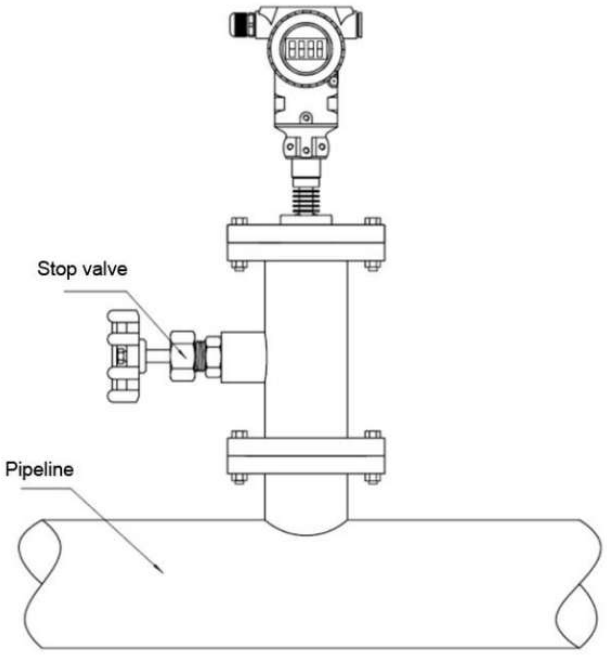
MECHANICAL DIMENSIONS

Housing Model	Dimensions (in mm)
3051 housing	
2088 housing	

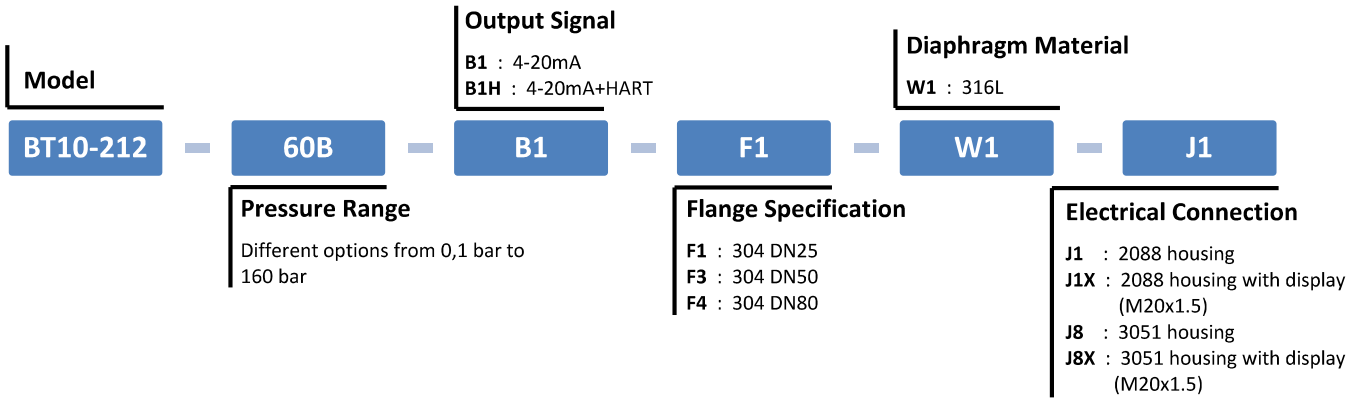
PROCESS CONNECTION

Flange Model	Dimensions (in mm)
DN25	
DN50	
DN80	

INSTALLATION

Outline Drawing	Installation Instruction
	• Integrated pressure transmitter, direct installation with the process connector; • The gasket is selected according to the medium characteristic and temperature range, and the balanced locking for various bolts should be ensured

ORDER CODE



Note: Products are supplied as **Gauge** type by default. If **Absolute** or **Sealed Gauge** types are required, this must be specified at the time of order.

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