

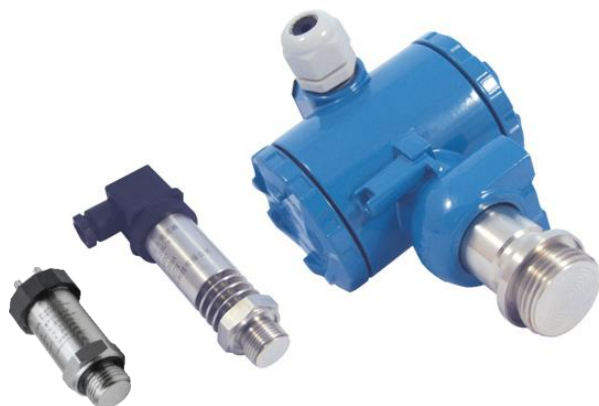
PRESSURE TRANSMITTER

"Flush Pressure Transmitter for High Temperature and Sanitary Applications"

BT10-214

BT20-214

BT05-214



Features

- 316L flush diaphragm structure
- Sanitary, anti-fouling
- Analog output options
- EMC and reverse polarity protection
- Wide pressure range
- Good seal, long-term stable work
- With cooling fans, excellent performance for high temperature medium application

Applications

- Occasion with easy block, high sanitary requirement and convenient cleaning such as medicine and health care, food, liquor-making, dairy and drinks
- Environmental protection chemical coating, polyurethane equipment, paint detection system etc.

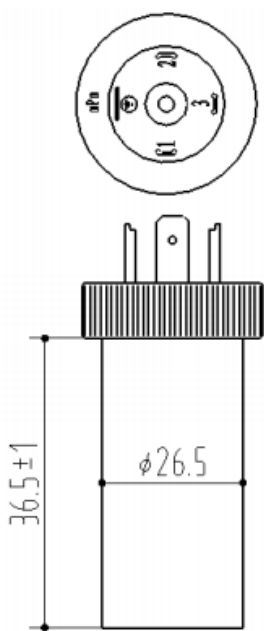
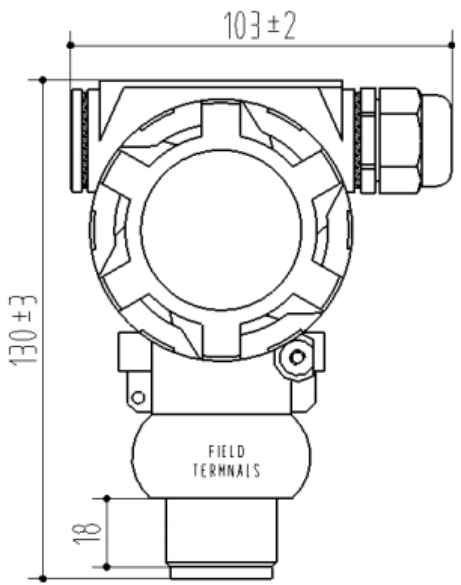
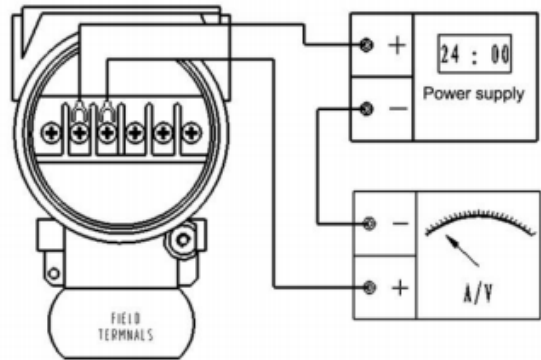
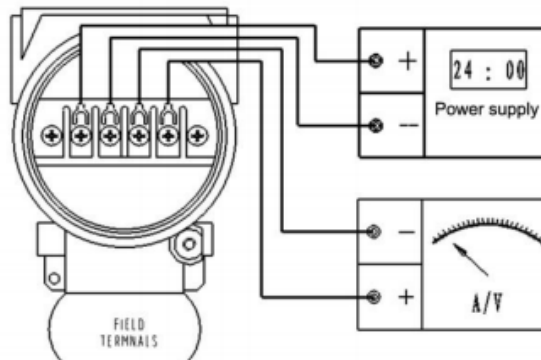
BT10-214 Sanitary Flush Pressure Transmitter adopts flush diaphragm to directly receive pressure signal, takes diffused silicon pressure sensor as sensitive element and uses standard silicone or olive oil as pressure transfer medium. With compact structure, corrosion resistance, vibration resistance and wide range temperature compensation, stainless steel 316L and specially welded flush isolation diaphragm are used for measurement end.

It prevents fouling due to its exposed diaphragm, which is especially applicable to measure viscous fluid pressure with sanitary requirements of health care and food industry, solving problems of fouling, block, cleaning and sanitation. It is also widely applicable to sanitary industries and occasions with fouling forming medium.

TECHNICAL SPECIFICATIONS

| | | | |
|-----------------------------|--|------------------|---------------------------|
| Pressure range | -1bar...0~0.1bar...600bar | | |
| Pressure reference | Gauge pressure, Absolute pressure, Sealed gauge pressure | | |
| Supply & Output | BT10-214 | BT20-214 | BT05-214 |
| | 4~20mA (12~30VDC) | 0~10V (15~32VDC) | 0~5V, 0.5~4.5V (12~24VDC) |
| Accuracy | 0.5%FS | | |
| Hysteresis ve repeatability | 0.1%FS | | |
| Temperature drift | ±1.5%FS (-20°C~85°C) | | |
| Response time | ≤1ms (up to 90%FS) | | |
| Service life | ≥10×10 ⁶ pressure cycles | | |
| Operating temp. | -20°C ... +85°C | | |
| Medium temp. | -40~85°C (without cooling fans) | | |
| | -40~150°C (with 3 cooling fans), -40°C~250°C (with 5 cooling fans) | | |
| Storage temp. | -40°C ... +85°C | | |
| Insulation resistance | ≥100MΩ/250VDC | | |
| Vibration performance | Sinus curve: 20gr, 25Hz~2kHz; IEC 60068-2-6 | | |
| | Random: 7.5gr, 5Hz~1kHz; IEC 60068-2-64 | | |
| Protection | IP65 | | |
| Medium compatibility | All kinds of media compatible with 316L | | |

ELECTRICAL CONNECTION AND WIRING

| Connector Code | DIN43650 | 2088 housing |
|-----------------------------|---|--|
| Dimensions (mm) |  |  |
| Protection Class | IP65 | IP65 |
| Connection (current output) | Pin 1: Supply Pin 2: Current output |  |
| Connection (voltage output) | Pin 1: Supply Pin 2: GND Pin 3: Voltage output |  |

COOLING FANS

| Code | T3: 3 cooling fans | T5: 5 cooling fans |
|-----------------|---------------------------|--------------------|
| Dimensions (mm) | | |
| Optional thread | M20×1.5-6g, G1/2, M30×1.5 | M20×1.5-6g, G1/2 |

PRESSURE CONNECTION

| Therad code | G1 | G1/2 |
|-----------------|----|------|
| Dimensions (mm) | | |

Note 1. Recommended torque : 15~25N

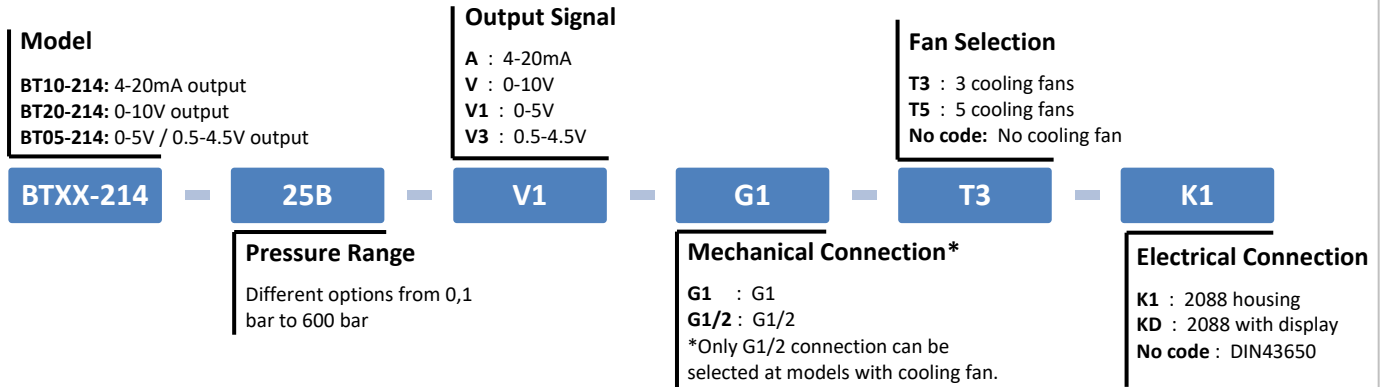
2. Recommended torque depends on a number of factors such as gasket material, supporting material, thread lubrication and pressure

PRESSURE RANGE SELECTION

| Code | Pressure Reference | Pressure Range | Overpressure | Burst pressure |
|------|--------------------|----------------|--------------|----------------|
| 10k | G | 0~0,1 Bar | %300FS | %500FS |
| 20k | G | 0~0,2 Bar | %300FS | %500FS |
| 35k | G | 0~0,35 Bar | %300FS | %500FS |
| 70k | G | 0~0,7 Bar | %300FS | %500FS |
| 100k | G, A | 0~1 Bar | %200FS | %300FS |
| 160k | G | 0~1,6 Bar | %200FS | %300FS |
| 250k | G | 0~2,5 Bar | %200FS | %300FS |
| 400k | G | 0~4 Bar | %200FS | %300FS |
| 600k | G | 0~6 Bar | %200FS | %300FS |
| 1M | G | 0~10 Bar | %200FS | %300FS |
| 1.6M | G, S | 0~16 Bar | %200FS | %300FS |
| 2.5M | G, S | 0~25 Bar | %200FS | %300FS |
| 6M | S | 0~60 Bar | %150FS | %300FS |
| 10M | S | 0~100 Bar | %150FS | %300FS |
| 25M | S | 0~250 Bar | %120FS | %200FS |
| 40M | S | 0~400 Bar | %120FS | %200FS |
| 60M | G | 0~600 Bar | %150FS | %200FS |

Note: G: Gauge pressure, A: Absolute pressure, S: Sealed gauge pressure

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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