GALAXY350 Sanitary Flush Pressure Transmitter

Features

- 316L flush diaphragm structure adopted for pressure connection
- Sanitary, anti-fouling
- Wide pressure range, can measure absolute pressure, gauge pressure and sealed reference pressure
- Good seal, long-term stable work
- With cooling fans, excellent performance for high temperature medium application
- Optional output signal, can be customized

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.

Notes:

1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.

2 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.

3 Strictly follow the wiring method for wiring, otherwise it may cause product damage or other potential faults.

4 Misuse of the product may cause danger or personal injury.

Overview

GALAXY350 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.

Notes:

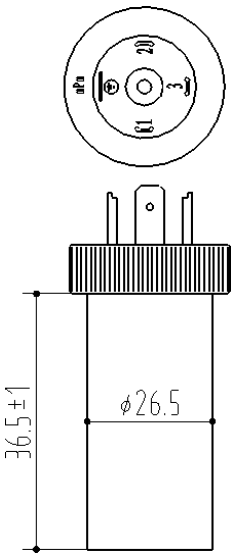
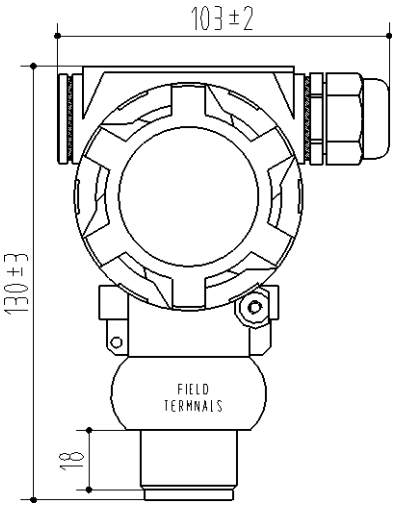
1 Do not misuse documentation.

2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.

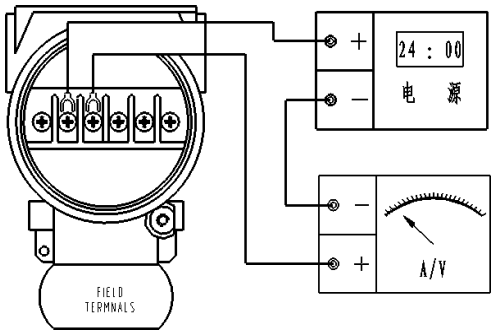
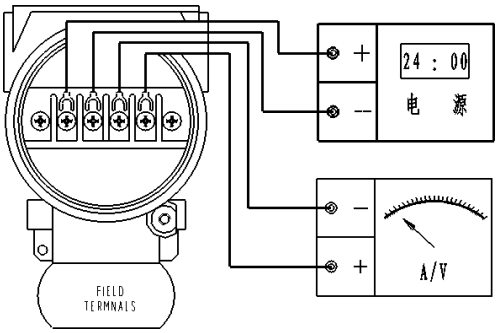
3 Complete installation, operation, and maintenance information is provided in the instructions of the product.

4 Misuse of the product may cause danger or personal injury.

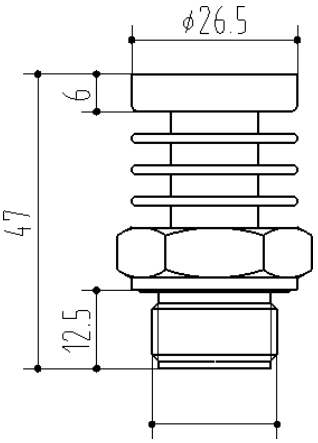
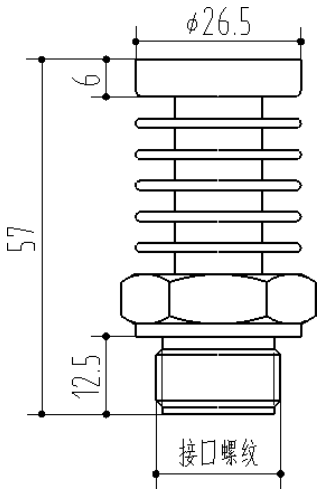
Performance parameters	
Pressure range	-100kPa…0～10kPa…10MPa
Pressure reference	Gauge pressure, absolute pressure, sealed gauge pressure
Supply & output	4～20mA (12～30VDC) 0～5V, 1～5V, 0.5～4.5V, 0～10V (12～24VDC)
Accuracy	0.5%FS
Hysteresis & repeatability	0.1%FS
Temperature drift	1.5%FS (@-20℃～85℃)
Response time	≤1ms (up to 90%FS)
Service life	≥10×10^6 pressure cycles
Operating temp.	-20℃～85℃
Storage temp.	-40℃～85℃
Medium temp.	-40～85℃ (without cooling fans) -40～150℃ (with 3 cooling fans), -40℃～250℃ (with 5 cooling fans)
Insulation resistance	≥100MΩ /250VDC
Vibration resistance	Sine curve: 20g, 25Hz～2kHz ; IEC 60068-2-6 Random: 7.5grms, 5Hz～1kHz ; IEC 60068-2-64
Protection	IP65
Medium compatibility	All the media compatible with stainless steel 316L
Ex-proof	Exia Ⅱ CT6

Electrical connection and wiring method		
Connector code	**J5: DIN43650**	**J1: 2088 housing**
Dimension In mm		
Protection	IP65	IP65

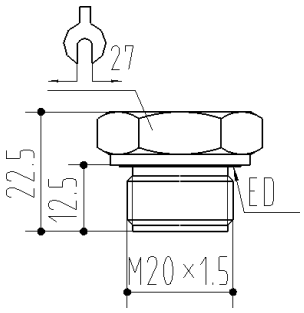
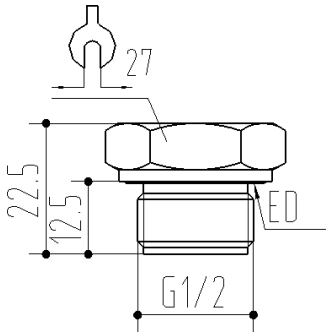
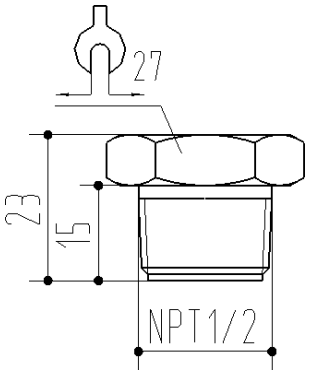
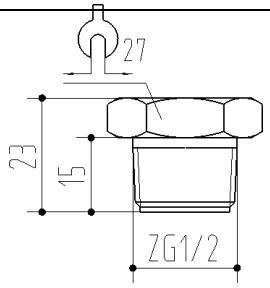
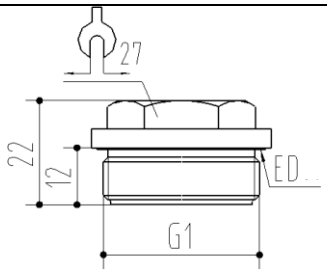
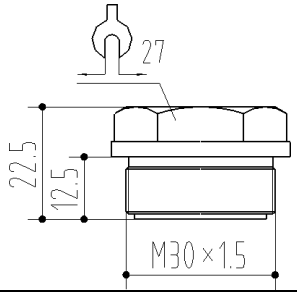
Electrical connection and wiring method (cont.)

Connection mode (Current output)	Pin 1: Supply Pin 2: Current output	
Connection mode (Voltage output)	Pin 1: Supply Pin 2: GND Pin 3: Voltage output	

Cooling fan design

Cooling fan code	**T3: 3 cooling fans**	**T5: 5 cooling fans**
Dimension In mm		
Optional thread	M20×1.5-6g, G1/2, M30×1.5	M20×1.5-6g, G1/2

Pressure connection

Thread code	C1: M20×1.5-6g	C2: G1/2	C7: NPT1/2, Z1/2
Dimension In mm			
Thread code	**C10: R1/2, PT1/2, ZG1/2**	**C17: G1**	**C26: M30×1.5**
Dimension In mm			

Note: 1. Recommended torque: 15～25N· m

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	Remark
10k	G	0～10kPa	300%FS	500%FS	
20k	G	0～20kPa	300%FS	500%FS	
35k	G	0～35kPa	300%FS	500%FS	
70k	G	0～70kPa	300%FS	500%FS	
100k	G、A	0～100kPa	200%FS	300%FS	
160k	G	0～160kPa	200%FS	300%FS	
250k	G	0～250kPa	200%FS	300%FS	
400k	G	0～400kPa	200%FS	300%FS	
600k	G	0～600kPa	200%FS	300%FS	
1M	G、S	0～1MPa	200%FS	300%FS	
1.6M	G、S	0～1.6MPa	200%FS	300%FS	
2.5M	G、S	0～2.5MPa	200%FS	300%FS	
6M	S	0～6MPa	150%FS	300%FS	
10M	S	0～10MPa	150%FS	300%FS	

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

Accessories

Name	Appearance	Description	Material no.
Domestic Hirschmann plug		Domestic (default)	100040301005
Imported Hirschmann plug		Totally imported	100040301013

How to order

GALAXY350 - 1.6M G B1 C1 T3 J5

- Product model
- See pressure range selection above
- G: Gauge pressure
  A: Absolute pressure
  S: Sealed gauge pressure
- B1: 4～20mA
  B2: 1～5V
  B3: 0～5V
  B6: 0.5～4.5V
  B7: 0～10V
- C1: M20×1.5-6g
  C2: G1/2
  C7: NPT1/2, Z1/2
  C10: R1/2, ZG1/2
  C17: G1
  C26: M30×1.5
- T3: 3 cooling fans
  T5: 5 cooling fans
- J1: 2088 housing
  J1X: 2088 housing with display
  J5: DIN43650