

EST3100 Economical Pressure Transmitter

- ✓ Pressure type: Gauge/Absolute Pressure
- ✓ Range: 0~0.5MPa~60MPa
- ✓ Accuracy: $\pm 0.5\%F.S$
- ✓ Stability 0.25%F.S/Year(typical), 0.4%F.S/Year(maximum)
- ✓ Customized working temperature: -40°C~85°C
- ✓ Signal Output: 4~20mA, 0/1~5V, 0.5~4.5V, 0~10V
- ✓ Power supply: 8/10/12~30Vdc, 5V(Ratio)
- ✓ OEM: Available



Applications

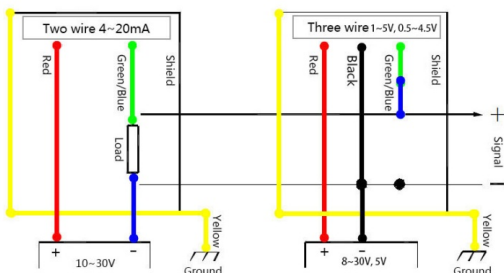
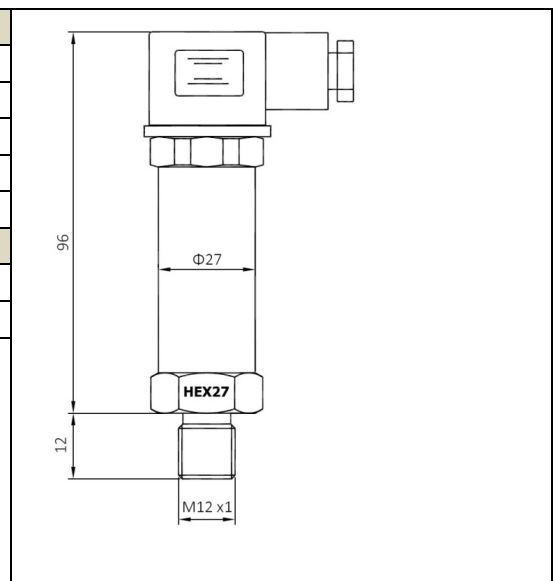
Gas dispenser | Refrigerator | Hydraulic lubrication | Constant pressure water supply | Line pressure | Pressure vessel | Petrochemical | Industrial process control

Product Introduction

EST3100 line is cost-effective pressure transmitter for both civil and industrial purposes. The product is widely used for the measurements of gas and liquid, such as water, oil and light corrosive liquid and gas. Adopting 1Cr18Ni9Ti stainless steel construction, sensors of international brands, and the sensor-special amplifying circuit, the product is easy for zero/span trim. Apart from dozens of standard constructions and output types, we are ready to customize products based on your requirements for batch application.

Electrical Connections and Dimensional drawings

| Electrical connection | | | | |
|-----------------------|-----------------------------|--------------|------------|--------|
| Cable | Two wire | Three wire | Hirschmann | GX16-7 |
| Red | Power Supply | Power Supply | 1 | 1 |
| Blue/Green | Output | Output | 2 | 2 |
| Black | Shield | GND | 3 | 3 |
| Yellow | | Shield | ≡ | 4 |
| Signal output | | | | |
| Two wire | 4~20mA | | | |
| Three wire | 0~5V, 0~10V, 1~5V, 0.5~4.5V | | | |



Specifications

| | | | | | |
|--------------------------|---|------------|---------------------|---|----------|
| Measuring Range | 0~0.5MPa...60MPa | | Insulation | >100MΩ@50V | |
| Overload | 1.5 times of rated pressure | | Electric Strength | 500V@60second; | |
| Burst Pressure | 2.5 times of rated pressure ±0.5/55℃; Note temperature effect error is doubled at range 3; the error for analog model is doubled | | | | |
| Accuracy | ±0.5%F.S ;(choose EST330 or air lines for higher accuracy) | | Vibration/Shock | 10g/5~2000Hz, axes X/Y/Z20g sine 11ms; | |
| Stability | 0.25%F.S/Y, 0.4%F.S/Ymax | | Display | -999~1999 | |
| Working temperature | -40~85℃ | | Safety Level | Intrinsically Safe E; Explosion-proof D; | |
| Compensation temperature | -10~70℃ | | Pressure type | gage pressure (G), absolute pressure (A), response time: 10ms | |
| Medium compatibility | All 1Cr18Ni9Ti-compatible corrosive mediums | | Pressure durability | 2 x 10 ⁶ pressure cycle@25℃ | |
| Electrical parameters | Two wire | | Three wire | | |
| Output Signal | 4~20mA | 0~5Vdc | 1~5Vdc | 0.5~4.5Vdc | 0~10Vdc |
| Power supply | 10~30Vdc | 8~30Vdc/ac | | 5Vdc(Ratio) | 12~30Vdc |
| Load resistance | (U-10)/0.02(Ω) | >20kΩ | | | |
| Electrical Connections | DIN43650, IP65; GX 16-7, IP45; Wire jacket connection. IP68: Waterproof | | Pressure connection | M20 x 1.5, G1/4, G1/2, NPT1/2, R1/2 | |

1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈

Ordering Procedure

| | | | | | | | | | | |
|-----|---------------------------------|---------------------|------------------|-------------|--------------------------------------|---------------|----|--|--|--|
| EST | Economical Pressure transmitter | | | | | | | | | |
| | Code | Model | | | | | | | | |
| | 3100G | Universal | | | | | | | | |
| | 3100S | Ceramic capacitance | | | | | | | | |
| | | Cod | Span | | | | | | | |
| | | 1 | 0~0.5MPa...60MPa | | | | | | | |
| | | 2 | 0~5bar...600bar | | | | | | | |
| | | | Code | Output Type | | | | | | |
| | | | A | 4~20mA | | | | | | |
| | | | V | 0~5Vdc | | | | | | |
| | | | V1 | 1~5Vdc | | | | | | |
| | | | V05 | 0.5~4.5Vdc | | | | | | |
| | | | V2 | 0~10Vdc | | | | | | |
| | | | | Code | Power Supply | | | | | |
| | | | | DC5 | 5Vdc | | | | | |
| | | | | DC24 | 24 Vdc | | | | | |
| | | | | DC8 | 8~30 Vdc | | | | | |
| | | | | DC10 | 10~30 Vdc | | | | | |
| | | | | DC11 | 11~30 Vdc | | | | | |
| | | | | Code | Pressure connections | | | | | |
| | | | | M | M20 x 1.5 | | | | | |
| | | | | G2 | G1/2 | | | | | |
| | | | | G | G1/4 | | | | | |
| | | | | R2 | R1/2 | | | | | |
| | | | | N2 | NPT1/2 | | | | | |
| | | | | Code | Electrical Connections | | | | | |
| | | | | H | DIN43650A | | | | | |
| | | | | GX | GX16-7 | | | | | |
| | | | | C | Wire jacket protection | | | | | |
| | | | | CW | Waterproof cable conduit connections | | | | | |
| | | | | Code | Cable length XXm=... m | | | | | |
| | | | | | Code | Packing | | | | |
| | | | | | Bb | Bubble bag | | | | |
| | | | | | Foa | Plastics foam | | | | |
| EST | 3100G | 1 | A | DC5 | M | H | Bb | | | |