

EST3110 Pressure Transmitter for Air Compressor Industry

- ✓ Pressure type: Gauge Pressure
- ✓ Range: 0~5bar~50bar
- ✓ Accuracy: $\pm 0.5\%F.S$, $\pm 1.0\%F.S$, $\pm 2.0\%F.S$
- ✓ Stability $0.5\%F.S/Year$ (typical), $1.0\%F.S/Year$ (maximum)
- ✓ Customized working temperature: $-40^{\circ}C \sim 120^{\circ}C$
- ✓ Signal Output: 4~20mA, 0.5~4.5V
- ✓ Power supply: 10~30Vdc
- ✓ Ingress Protection: IP67
- ✓ OEM: Available



Applications

Frequency Compressor | Building water supply | Hydraulic control | Air conditioning unit | Automobile engine | Automatic detection system | Hydraulic station| Refrigeration equipment

Product Introduction

EST3110 line is low-cost pressure transmitter of high quality and reliability. Aiming for both civil and industrial purposes, the product is available for OEM. Being small in size and light in weight, the compact product is widely used for the field measurements of compressors, automobiles and air conditioners.

Electrical Connections and Dimensional drawings

| Electrical connection | | | |
|-----------------------|--------------|--------------|---------|
| Cable | Two wire | Three wire | Packard |
| Red | Power Supply | Power Supply | B |
| Blue/Green | Output | Output | C |
| Black | Shield | GND | A |
| Yellow | | Shield | |
| Signal output | | | |
| Two wire | 4~20mA | | |
| Three wire | 0.5~4.5V | | |

Specifications and

| | | | |
|--|---|-------------------------------|--|
| Measuring Range | 0~5bar...50bar | Insulation | >100MΩ@50V |
| Overload pressure | 1.5 times of rated pressure | Electric Strength | 500V@60second |
| Burst Pressure | 3 times of rated pressure ±0.5/55℃; Note temperature effect error is doubled at range 3; the error for analog model is doubled | Vibration/Shock | 10g/5~2000Hz, axes X/Y/Z20g sine 11ms |
| Accuracy | ±0.5%F.S; ±1.2%F.S | Pressure type | GP (G) |
| Stability | 0.5%F.S/Y, 1.0%F.S/Ymax | Response time: | 10ms |
| Working temperature | -40~120℃ | Pressure durability | 2 x 10 ⁶ pressure cycle@25℃; |
| Compensation temperature | -10~80℃ | Safety Level | Intrinsically safe and explosion-proof E |
| Medium compatibility | All 1Cr18Ni9Ti-compatible corrosive mediums | Electromagnetic compatibility | Electromagnetic radiation: EN50081-1/-2; Electromagnetic Sensitivity: EN50082-2 |
| Electrical parameters | Two wire | Three wire | |
| Output Signal | 4~20mA | 0.5~4.5Vdc | |
| Power supply | 10~30Vdc | 10~30Vdc/ac | |
| Load resistance | (U-10)/0.02(Ω) | >100kΩ | |
| Electrical Connections | Packard, IP67 | | |
| Pressure connection | G1/4, NPT1/4, 7/16-20UNF | | |
| 1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm ² =1atm; 1atm≈98kPa | | | |

Ordering Procedure

| | | | | | | | | | | |
|-----|--|-----------|----------------|-------------|-----------|--------------|----------------------|------------------------|------------------------|---------------|
| EST | Pressure transmitter for air compressor industry | | | | | | | | | |
| | Code | Model | | | | | | | | |
| | 3110 | Universal | | | | | | | | |
| | | Code | Span | | | | | | | |
| | | 1 | 0~5bar...50bar | | | | | | | |
| | | | Code | Output Type | | | | | | |
| | | | A | 4~20mA | | | | | | |
| | | | V05 | 0.5~4.5Vdc | | | | | | |
| | | | | Code | Precision | | | | | |
| | | | | 0.5 | ±0.5%F.S | | | | | |
| | | | | 1.2 | ±1.2%F.S | | | | | |
| | | | | | Code | Power Supply | | | | |
| | | | | | DC10 | 10~30 Vdc | | | | |
| | | | | | | Code | Pressure connections | | | |
| | | | | | | G | G1/4 | | | |
| | | | | | | N | NPT1/4 | | | |
| | | | | | | U | 7/16-20UNF | | | |
| | | | | | | | Code | Electrical Connections | | |
| | | | | | | | P | Packard | | |
| | | | | | | | | Code | Cable length XXm=... m | |
| | | | | | | | | | Code | Packing |
| | | | | | | | | | Bb | Bubble bag |
| | | | | | | | | | Foam | Plastics foam |
| EST | 3110 | 1 | A | 0.5 | DC10 | G | P | Bb | | |