

DFP300E Pressure Transmitter



- Product Features Measurement range: -100 kPa...0 kPa to 10 kPa...100 MPa.
- Small-size package with 4-20 mA two-wire output, suitable for more application scenarios.
- 24-bit high-precision analog-to-digital conversion.
- Real-time temperature-drift compensation.
- Reliable performance; safe and easy to use.
- Short-circuit and reverse-polarity protection.

Overview

The DFP300E pressure transmitter uses a high-stability, high-reliability pressure sensor. The compensation circuit and sensing element are packaged as an integrated module, combining the sensor with the circuit board. Multi-point temperature compensation provides real-time compensation for sensor zero error and drift, sensitivity error and drift, and nonlinearity error. It provides a 4-20 mA two-wire output signal. The product is compact, easy to install, and cost-effective, with accurate and reliable pressure measurement, greatly enhancing field adaptability. It is widely used for pressure measurement and control in industrial process sites such as pharmaceutical, food processing, and packaging equipment.

Performance Specifications

Pressure Parameters	
Measurement Range	-100 kPa...0 kPa to 10 kPa...100 MPa
Overload	2x full-scale pressure or 110 MPa (whichever is smaller)
Pressure Type	Gauge, absolute, sealed gauge pressure
Electrical Specifications	
Power Supply	9-36 VDC
Output Signal	4 mA-20 mA DC (2-wire)
Load Resistance	$\leq (U-9)/0.02$
Insulation Resistance	100 M Ω @ 100 VDC
Performance Parameters	
Accuracy	$\pm 0.25\%FS$ (typ.) $\pm 0.5\%FS$ (max.)
Zero Temperature Coefficient	0.03%FS/°C (≤ 100 kPa); 0.02%FS/°C (> 100 kPa)
Span Temperature	0.03%FS/°C (≤ 100 kPa); 0.02%FS/°C (> 100 kPa)

