

PRESSURE MEASUREMENT

FD80F Intelligent Sanitary Pressure Transmitter

Product Overview

FD80F series intelligent sanitary pressure transmitter is a flush diaphragm transmitter for food, beverages, medicine, and biological engineering, which has high precision, high stability, high-temperature model products. The digital technology combined with the international advanced piezoresistive technology, precision digital temperature compensation and nonlinear correction. LCD 4-bit display, reliable explosion-proof structure design and standardized signal output, with high accuracy and wide range, complies with 3-A hygienic standards.



Main Feature

◆ Wide measurement range. Gauge, Absolute, Negative pressure
◆ The sensor adopts digital compensation and nonlinear correction
◆ IP65 protective design, suitable for wild, open air, etc.
◆ High temperature resistance, up to 180°C
◆ Laser marking, exquisite appearance
◆ Flush diaphragm, complies with 3-A hygienic standards.

Performance Index

Item	Technical Data
Pressure Range	0-5kPa ~ 3MPa (Specific refer to selection table)
Pressure Type	Gauge, Absolute, Negative pressure (Optional)
Overload Pressure	Overload Pressure 150%, Burst Pressure 200%
Accuracy	0.5%F.S
Long-term Stability	0.2%F.S/year
Working temperature	-20°C ~ 70°C / -20°C ~ 150°C / -20°C ~ 180°C ;
Power Supply	10V ~ 30VDC (24VDC)
Output Signal	4mA ~ 20mA DC / 1V-5VDC / RS485 Optional
Protocol	MODBUS RTU / HART
Electronic Connection	M20*1.5(F) Standard, GDM connector, Gland cable
Protection Grade	IP65、IP68
Explosion-proof Grade	Exia II CT4 Ga、Exd II CT6 Gb、ExtD A21 IP66 T80°C
Products Warranty	12 months

Dimensions	Electrical interface and wiring method