

F401x/F402x Series

Accurate · Wide Range

**Standard Smart
Pressure Transmitter**



Product Overview

F401x standard smart pressure transmitter adopts fully welded oil-filled sensor and high-precision special chip, small in size, high precision, suitable for various industries needing to measure fluid pressure precisely.

Product Advantages



**Accurate
Amplifier Circuit**



**Wide Range
Temperature Compensation**



**High Reliability
Pressure Sensor**



Modbus RTU Port

- ◎ Adoption of digital compensation and nonlinear correction technology
- ◎ Wide measuring range for absolute, gauge and negative pressures
- ◎ No moving parts, high reliability
- ◎ Advanced structure to ensure product reliability
- ◎ Excellent on-site interchangeability
- ◎ 4~20mA or Modbus RTU output optional

Technical Data

Pressure		Output	
Measuring Range	-100 ~ 0kPa to 10kPa ~ 40MPa ~ 100MPa	Analog Output	4 ... 20 mA (2-wire)
Pressure Type	Gauge, Absolute, Negative pressure	Digital Output	Modbus RTU (RS485)
Accuracy	0.5% (0.25% or 0.1% optional)	Operating Environment	
Hysteresis	±0.1% FS	Medium Temperature	-30 ... +85 °C
Repeatability	±0.1% FS	Environment Temperature	-40 ... +85 °C
Response	≤1ms (Up to 90% FS)	Others	
Measuring Medium	Various liquids, gases or vapors compatible with 316 stainless steel	Process Connection	G1/2" (M20x1.5, G1/4", 1/2"NPT, 1/4"NPT optional)
Overload Pressure	2 times full scale	Electrical connector	Hirschmann DIN connectors (Direct line out, airline connectors optional)
Power		Protection Code	IP65
Power	16 ... 30 VDC	Housing Material	SUS304 (SUS316 optional)
		Diaphragm Material	SUS316L

Order Information

Model	Description
F401A	Pressure Transmitter, 1.6 MPa(g), 0.5%, G1/2" thread, Modbus RTU (RS485) communication
F401A-1	Pressure Transmitter, 0 ... 6.0 MPa(g), 0.5%, G1/2" thread, Modbus RTU (RS485) communication
F401A-2	Pressure Transmitter, -80 ... 0 kPa(g), 0.5%, G1/2" thread, Modbus RTU (RS485) communication
F401A-3	Pressure Transmitter, -100 ... 0 kPa(g), 0.5%, G1/2" thread, Modbus RTU (RS485) communication
F401B	Pressure Transmitter, 1.6 MPa(g), 0.5%, G1/2" thread, 4 ... 20 mA analog output
F401B-1	Pressure Transmitter, -10 ... 0 kPa(g), 0.5%, R1/4" thread, 4 ... 20 mA analog output
F401B-2	Pressure Transmitter, -10 ... 50 kPa(g), 0.5%, R1/4" thread, 4 ... 20 mA analog output
F401B-3	Pressure Transmitter, 0 ... 1.5 MPa(g), 0.25%, G1/2" thread, 4 ... 20 mA analog output
F401B-4	Pressure Transmitter, 0 ... 1.6 MPa(g), 0.25%, R1/4" thread, 4 ... 20 mA analog output
F401B-5	Pressure Transmitter, 0 ... 0.6 MPa(g), 0.25%, R1/4" thread, 4 ... 20 mA analog output
F401B-6	Pressure Transmitter, -100... 0 kPa(g), 0.5%, G1/2"thread, 4 ... 20 mA analog output
F401B-7	Pressure Transmitter, -50 ... 50 kPa(g), 0.5%, R1/4" thread, 4 ... 20 mA analog output
F401C	Pressure Transmitter with LED Digital Display, 0 ... 1.6 Mpa(g), ±0.5%, G1/4" thread, Modbus RTU (RS485) output, 24VDC power supply
F402C	Pressure Transmitter, Monocrystalline Silicon, 0.075%, Direct Mount, G1/2" thread, Explosion-Proof, 0 ...1.6 MPa(g), with LCD Display / 4 ... 20 mA analog output / HART communication
F402D	Pressure Transmitter, Monocrystalline Silicon, 0.075%, Direct Mount, G1/2" thread, Explosion-Proof, -100 ... 0 kPa(g), with LCD Display / 4 ... 20 mA analog output / HART communication

* For other measurement requirements, please consult sales