

MEMS & Ceramic Pressure Transmitters & Switches (PS03-PS12 / PT Series)

Automotive, HVAC, Industrial & EV Battery Thermal Runaway Pressure Sensors

Product Overview

Misensor PS Series pressure transmitters and switches utilize high-stability piezoresistive silicon MEMS, ceramic capacitive, or stainless-steel diaphragm sensing elements coupled with ASIC signal conditioning. Providing ratiometric 0.5-4.5V, 0-5V, 0-10V, 4-20mA, I2C/SPI, or resistive VDO outputs.

Key Features

- Wide pressure range from -100 kPa vacuum up to 60 ...
- High accuracy ($\pm 0.5\%$ to $\pm 1.0\%$ FS) with digital tem...
- 304 / 316L stainless steel or brass housing with P...
- PS10 EV Battery Thermal Runaway pressure monitorin...
- PT-01 / PT-02 Integrated Pressure & Temperature (P...
- VDO-compatible oil pressure sender with low-pressu...

Typical Applications

- Automotive engine oil, fuel rail, brake & HVAC ref...
- EV battery pack thermal runaway early warning dete...
- Industrial air compressors, water pumps, hydraulic...

Technical Specifications & Model Selection

Model	Sensor Type	Pressure Range	Output Signal	Supply Voltage	Accuracy	Process Connection
PS03 / 04 / 05	VDO Oil Pressure S..	0-1.0 MPa (0.08MPa..	10-184 Ohm + Switch	6-24V DC	$\pm 5\%$ FS	M10x1 / M14x1.5 / ..
PS06	Economical Transmi..	-0.1 to 10 MPa	0.5-4.5V / 4-20mA	5V / 9-30V DC	$\pm 1.0\%$ FS	G1/4 / NPT1/4 / M12
PS07 (2000)	Heavy-Duty Industr..	0-1.6 to 40 MPa	4-20mA / 0.5-4.5V	5V / 12-36V DC	$\pm 0.5\%$ FS	G1/4 / NPT1/4 / M1..
PS08	Current Loop Series	0-0.6 to 25 MPa	4-20mA (2-Wire)	9-36V DC	$\pm 0.5\%$ FS	G1/4 / M14x1.5 / M..
PS09	Ratiometric Voltage	0-0.5 to 10 MPa	0.5-4.5V DC	5.0V DC	$\pm 1.0\%$ FS	7/16-20UNF / G1/4 ..
PS10	EV Battery Thermal..	30-150 kPa Abs	CAN / LIN / PWM /SPI	5V / 12V DC	± 1.0 kPa	Snap-in / Bolt-on ..
PS11	Compact Miniature	0-1.0 to 6.0 MPa	0.5-4.5V / I2C	3.3V / 5.0V DC	$\pm 1.0\%$ FS	G1/4 / M10x1 / Cus..
PS12	Digital Output Pre..	0-1.0 to 10 MPa	I2C / RS485 Modbus	3.3V / 5V / 12V	$\pm 0.5\%$ FS	G1/4 / M12x1.5
PT-01 / PT-02	Integrated Pressur..	0-3.5 MPa (LP/HP)	0.5-4.5V + NTC	5.0V DC	$\pm 1.0\%$ FS	Automotive A/C & H..