

# Compact Rugged Pressure Transmitters



15 to 5000 psi, 1 to 345 bar

PX119 Series



- ✓ Low Cost
- ✓ Compact Size
- ✓ 0.50% BFSL Accuracy
- ✓ All Stainless Steel Body

The PX119 pressure transmitter series is ideally suited for material handling, industrial and mobile equipment applications where space constraints require a small body size. The body is machined from a single piece of stainless steel to provide added protection for the internal electronics. A piezoresistive ceramic sensor along with ASIC signal conditioning provide an excellent thermally compensated output.

## Specifications

**Accuracy:** 0.50% BFSL Accuracy

**Pressure Range:** 15 to 5000 psi (345 bar)

**Output:** 4 to 20 mA, 0 to 5 Vdc

**Supply Voltage:** 8 to 30 Vdc

**Output Connections:** Cable, M12, DIN 43650C (mini DIN)

**Output Wiring:** Pin 1: Supply +, Pin 2: Supply -

**Long Term Drift:** <0.3% FS @ 25°C (77°F)

**Thermal Error:**

**7.5 psi ≥ 100 psi:** 0.01% FS/°F (0.018% FS/°C)

**100 psi > 400 psi:** 0.009% FS/°F (0.016% FS/°C)

**400 psi ≥ 1000 psi:** 0.011% FS/°F (0.019% FS/°C)

**1000 psi > 3000 psi:** 0.012% FS/°F (0.021% FS/°C)

**3000 psi ≥ 5000 psi:** 0.018% FS/°F (0.028% FS/°C)

**Compensated Temperature:**

0 to 85°C (32 to 185°F)

**Operating Temperatures:**

-40 to 135°C (-40 to 257°F)

**Process Connection:** 1/4 NPT Male, 1/8 NPT Male

**Construction:** 304 SS

**Wetted Materials:** 304 SS and Ceramic Al<sub>2</sub>O<sub>3</sub>, NBR Standard

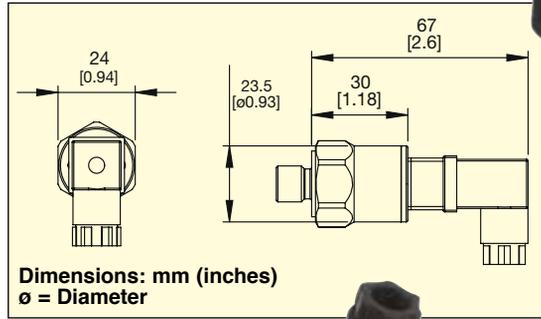
**Vibration:** 10 g (20 to 2000 Hz) for <58 psi (4 bar); 20 g (20 to 500 Hz) for ranges >58 psi (4 bar)

**Protection:** Overvoltage, short circuit, reverse polarity

**Response Time:** 1 ms

**Ingress Protection:** IP65

**Weight:** 70 g (0.15 lb)



PX119, both models shown smaller than actual size.



mini DIN style (connector included).

Part Number	Value	Description	Example:	PX1	19	A	-	100	G	5V
<b>Electrical Connection</b>										
	09	Cable								
	19	Mini DIN 43650 C			19					
	59	M12								
<b>Process Connection</b>										
	(default)	1/4-18 NPT Male								
	A	1/8-27 NPT Male								
<b>Pressure Range</b>										
	015	0 to 15	PSI							0 to 1
	030	0 to 30	PSI							0 to 2.1
	060	0 to 60	PSI							0 to 4.2
	100	0 to 100	PSI						100	0 to 6.9
	150	0 to 150	PSI							0 to 10.3
	200	0 to 200	PSI							0 to 13.8
	300	0 to 300	PSI							0 to 21
	500	0 to 500	PSI							0 to 345
	600	0 to 600	PSI							0 to 42
	1K	0 to 1000	PSI							0 to 69
	1.5K	0 to 1500	PSI							0 to 103
	2K	0 to 2000	PSI							0 to 138
	3K	0 to 3000	PSI							0 to 207
	5K	0 to 5000	PSI							0 to 345
<b>Pressure Type</b>										
	A	Absolute								
	G	Gauge							G	
<b>Electrical Output</b>										
	I	4 to 20 mA								
	5V	0 to 5 Vdc								5V

## Accessories

Model No.	Description
CA-319-4PC24-XXX-WP	Vented cable used for PX119 ≤100 psig, terminated in a clean dry area that is open to atmosphere for correct operation*
CA-319-4PC24-XXX	Standard cable for PX119 >100 psig and all absolute ranges, terminated in a dry location or sealed to prevent water from getting into the cable/sensor*
DP8PT	PLATINUM™ Series 1/8" DIN 4-digit single display panel meter

\*All PX119 are vented through a hole in the connector and through the mating connector. OMEGA recommends purchase and use of ready-made Cable Assemblies using part # structure "CA-319-4PC24-XXX-WP" (and non-WP version) as shown above, where "XXX" is the length in feet of the desired cable (e.g. "030" stands for 30 ft).