

PX3005K

Sanitary, Rangeable, Pressure Transmitters with Display



Product Details

Omega's PX3005K is a compact, rangeable, digital sanitary pressure transmitter that is ideal for monitoring pressures in food and pharmaceutical industries where a flush diaphragm design is required. The rugged 316 stainless-steel enclosure is IP67 rated making it suitable for washdown environments. A 5-digit backlit LCD allows for full precision representation of process variable. This hygienic design, the OMEGA PX3005K has been issued 3-A symbol authorization and meets the requirements of the 3-A Sanitary Standards. The best choice for process automation and tank level applications where consistent reliable pressure management are essential.

Features

- For Sanitary or CIP (Clean-in-Place) Applications
- The OMEGA PX3005K has been issued 3-A symbol authorization and meets the requirements of the 3-A Sanitary Standards for food, beverage, dairy, and pharmaceutical applications
- IP67 316 SS enclosure protects against harsh environments
- 5 digit display for easy monitoring
- $\pm 0.2\%$ URL accuracy for precise pressure measurements



Specifications

Accuracy: $\pm 0.2\%$ TD% SPAN
Supply Voltage: 10.5 to 55VDC
Output Signal: 4-20mA Two wire
Sensor Response Time: 200 mS
Operating Temperature: -20 to 70°C (-4 to 160°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Media Temperature: -40 to 120°C (-40 to 250°F)
Environmental Rating: IP67
Media: Fluids and gasses compatible with 316 SS and FKM
Process Connection/Material: Tri-Clamp
Electrical Connection: 4 pin male M12
Isolating Diaphragm: 316L SS
Sensor Fill Fluid: Silicone Oil
Sensor Seal: O-ring, FKM
Housing Material : 316 SS
Long Term Stability: $\pm 0.1\%$ URL / year
Damping Time: Selectable, 0 to 100 S
Load Resistance: $< (U-10.5)/0.021$
Transmission Distance: $< 1000\text{m}$
Power Consumption: 500mW (20.8mA output @ 24VDC)
Ambient Temperature Effects (-20°C to 70°C): $\pm (0.1 + 0.1\text{TD})\%$ SPAN
Power Supply Effects: $\pm 0.005\text{TD}\%$ SPAN/V (Zero and Span)
Mounting Position Effects: Apply to any position. Install error less than 0.06 psi can be corrected by PV=0 reset.
Vibration Effects: GB/T 1827.3/IEC61298-3 tests, 20g (5-2000HZ, max $\leq \pm 3\text{mm}$) $< 0.1\%$ URL
Weight: 1.14 lbs

Product Number	Pressure Range	Pressure Type
1.5" port size		
PX3005K01-005GI	-5 to 5 psi	Compound gauge
PX3005K01-003GI	-3 to 3 psi	Compound gauge
PX3005K01-015GI	-15 to 15 psi	Compound gauge
PX3005K01-030GI	-15 to 30 psi	Compound gauge
PX3005K01-100GI	-15 to 100 psi	Compound gauge
PX3005K01-150GI	-15 to 150 psi	Compound gauge
PX3005K01-250GI	-15 to 250 psi	Compound gauge
PX3005K01-300GI	-15 to 300 psi	Compound gauge
2" port size		
PX3005K02-003GI	-3 to 3 psi	Compound gauge
PX3005K02-005GI	-5 to 5 psi	Compound gauge
PX3005K02-015GI	-15 to 15 psi	Compound gauge
PX3005K02-030GI	-15 to 30 psi	Compound gauge
PX3005K02-100GI	-15 to 100 psi	Compound gauge
PX3005K02-150GI	-15 to 150 psi	Compound gauge
PX3005K02-250GI	-15 to 250 psi	Compound gauge
PX3005K02-300GI	-15 to 300 psi	Compound gauge

