

P1A

Pressure Sensor



Main Features

Pressure Ranges	0 to 0.25 up to 0 to 16 bar (gage) 0 to 1.6 up to 0 to 16 bar (absolute) -1 to 1 up to -1 to 0 bar (gage)
Electrical Connection	Packard Electric Metri-Pack 150 Series, M12, 4 pole according to IEC 61076-2-101 18mm, EN 175301-803-A003MS, 4 pole
Pressure Connection*	G 1/4A DIN 3852-E 1/4-18 NPT (Male)
Housing Material	304 Stainless steel
Connector Material	PBT (30% glass fibre)
Output Signal	0.5 to 4.5 Vdc; 4 to 20 mA; 0 to 5 Vdc; 0 to 10 Vdc

* other options available

Attributes

- Small Compact Size
- Highly Modular Product Configurations
- Kavlico Ceramic Capacitive Technology
- Outstanding Long Term Stability and Performance
- Vacuum to 16 Bar Gage and Absolute
- Media Resistant CCAP Technology

Typical Applications

- Vacuum Machinery and Plant
- Medical and Laboratory Sterilizers/ Autoclaves
- HVAC Systems
- Water Pump Booster Sets
- Pneumatic Systems
- Waste and Water Management
- Industrial OEM Applications

Description

Robust, reliable and media-resistant, the Ceramic Capacitive sensing technology at the heart of the P1A is the best technology for low-pressure applications seeking superior long term stability. Kavlico introduced and patented a cost-effective design and opened the door to robust, high volume Ceramic Capacitive sense elements. Now – after more than 40 years of Ceramic Capacitive experience in transportation, HVAC, Refrigeration, medical and general industrial applications Kavlico Pressure Sensor is launching the next generation of pressure sensors. Featuring a highly modular design and a wide range of options, the P1A has been specifically developed to address the broadest spectrum of general industrial applications.

THE P1A - YOUR FIRST CHOICE FOR LOW-PRESSURE APPLICATIONS

Kavlico's Manufacturing Power

Kavlico Pressure Sensors is one of the biggest Ceramic Capacitive Sensor producers, by volume. The P1A's design and Kavlico's international manufacturing profile make it possible to manufacture the P1A in either High Volume Low Mix (with no worries about capacity) or Low Volume High Mix contexts (with the possibility of rapid ramp-up if needed).

Superior Performance

- Latest generation of sensing elements
- State-of-the-art ASICs
- Designed to withstand harsh environments
- Superior EMI protection
- Outstanding shock and vibration performance
- Impressive longevity and lifetime performance
- Highly reliable quality

The modular design of the P1A incorporates:

- Various analog electrical outputs
- Digital outputs on request
- A wide selection of standard pressure ports
- The possibility of customized pressure ports
- Several electrical connector variants and customized over molded cable on demand
- Internal seals to match specific application

Available Options & Dimensions

