

809 Series – Industrial OEM Pressure Transducer

- Sensing Ranges from Vacuum to 10,000 psi (-1 to 690 bar)
- ► Rugged Stainless Steel & Valox® Housings
- Ideal for High Shock & Vibration Applications

The 809 Series pressure transducers are designed specifically for industrial applications with demanding price and performance requirements. They offer exceptional reliability in typical industrial grade environments. 809 Series transducers operate on low-cost, unregulated DC power, and over a wide temperature band with both liquids and gases. Designed for harsh environments, they are suitable for use in high shock and vibration applications. Stainless steel and Valox® housings are small and lightweight for easy integration into compact systems. The standard feature set of the 809 Series delivers exceptional performance in extreme environmental conditions at a price that OEMs will appreciate.

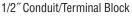
Common Specifications

See ordering chart			
>1 million cycles			
-40°F to +185°F (-40°C to +85°C)			
-40°F to +185°F (-40°C to +85°C)			
5 ms			
See ordering chart			
17-4 PH Stainless Steel			
See Dimensions chart, next page			
Weather-Resistant (Stainless Steel and Valox®)			
20g (MIL STD 202, Method 204, Condition C)			
200g (MIL STD 202, Method 213B, Condition C)			

Individual Specifications

Voltage Output Units				
Output	3 Wire, see ordering chart			
Current Consumption	8 mA			
Min. Load Resistance	5000 ohms			
Current Output Units				
Output	4-20 mA (2 wire)			
Max. Loop Resistance	(Vs-9) x 50 ohms			













Hirschmann Connector

Applications

- · Hydraulic Systems
- · Compressor Control
- HVAC/R Equipment
- · Industrial Engines
- · Process and Containerized Refrigeration Systems
- Industrial OEM Equipment

How They Operate

809 Series transducers utilize a proven center mount electrode configuration combined with a durable 17-4 PH stainless steel pressure sensing element to form a variable capacitor. As pressure (or vacuum) increases or decreases, the capacitance changes. Self-contained high-level output IC-circuitry converts the change in capacitance to a fully conditioned linear voltage or current output signal.

Dimensions

Electrical Termination Style	Cable Anchor	1/2" Conduit/Terminal Block	Hirschmann Connector	3-Pin Packard Connector
	0.50 DIA. 2.40 1.62 DIA. 2.00 2.00 3/4" HEX PRESSURE PORT	TERMINAL BLOCK (3 TERMINALS)	0.63 16 0.75 19.1 1.38 DIA 1.62 41 DIA 9PESSURE PORT	0.45 11 0.49 13 DIA 0.67 DIA 0.33 8 0 1.62 DIA 1
Terminal Specifications	Standard: 2 ft. multiconductor cable. Longer lengths options. See ordering chart.	1/2" conduit connection with 3-screw terminal block. (T1 version is same without conduit connection.)	Mating connector is Hirschmann G4WIF. May be ordered separately from Gems— Option 590.	Mating connector is comprised of Packard P/Ns 12065287 & 12103881. May be ordered separately from Gems— Option 581/582.
Ordering Code	XX (cable length in feet)	A1 - Conduit / T1- Terminal Block	H2	P1 (3-Pin)

How to Order

Use the **bold** characters from the chart below to construct a product code.

