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CATALOG KỸ THUẬT · JOHNSON CONTROLS

Cảm biến áp suất PENN P499

cho hệ lạnh và điều hòa · -10–100 đến 0–750 psi

P499 Johnson Controls PENN – cảm biến áp suất cho hệ lạnh, điều hòa: -10–100 đến 0–750 psi, cổng inox 17-4PH, ±1% toàn dải, ngõ ra 0,5–4,5 V, 0–10 V, 4–20 mA.

Mã: P499 · Hãng: Johnson Controls · Hotline: 093 797 2339

dlk.com.vn/p499-johnson-controls-penn-cam-bien-ap-suat.html



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Presssure & Differential Pressure Transmitter and Switch

P499 Series Pressure Transducer

Introduction

The P499 Series Electronic Pressure Transducers are compact, economical, rugged, direct-mount pressure transducers designed for use in commercial refrigeration and air conditioning applications. These transducers produce an analog signal based on the sensed pressure.

The P499 Series transducers feature environmentally protected electronics with stainless steel construction. The digitally compensated P499 transducers are highly accurate over a broad temperature range, resisting the effects of wide ambient temperature swings, high humidity, condensation, and icing.

The pressure port is machined from a solid piece of 17-4PH stainless steel. No O-rings, organic materials, or welds are exposed to the pressure media, allowing for a leak-proof, all-metal, sealed pressure system.

The P499 Series transducers operate with any corrosive or non-corrosive pressure medium that is compatible with 17-4PH stainless steel, including water, condensate, carbon dioxide, glycol, most refrigerants (including ammonia), and many other compatible fluids and gases.



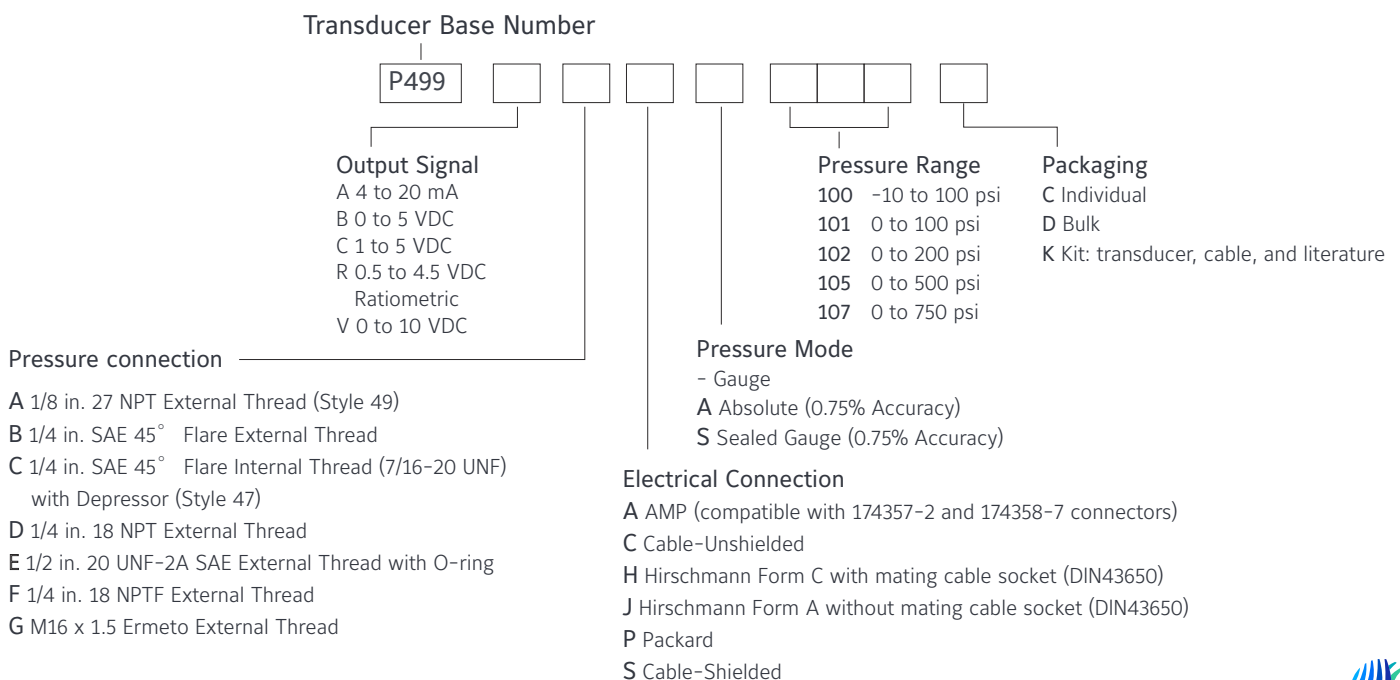
Figure 1: P499 Electronic Pressure Transducers; Style 47 Fitting Shown on the Left and Style 49 Fitting Shown on the Right

The P499 Series provides transducers in a variety of pressure ranges, covering most common refrigeration and air conditioning applications.

Table 1: Features and Benefits

Features	Benefits
Single-Piece Machined 17-4PH Stainless Steel Pressure Port	Provides a durable assembly that eliminates refrigerant loss due to O-ring or weld failures; resists damage due to physical shock, vibration, and pressure pulsations; enables use with non-corrosive or corrosive pressure media that is compatible with 17-4PH stainless steel.
Environmentally-Protected Electronics	Withstand the effects of adverse conditions associated with typical HVAC and Refrigeration applications, including freeze/thaw applications on suction lines.
Reliable, Repeatable Performance and Long Operating Life	Minimizes service and replacement costs.
Many Available Pressure Ranges	Provide a single line of transducers for all refrigeration and air conditioning application needs.
Slender Body Design	Facilitates use of deep-socket wrenches for ease of installation; requires zero turning radius.
1% Total Error Band	Provides high-accuracy performance.
CE and UL Agency Listings	Allow for global applications.

Order Information



Presssure & Differential Pressure Transmitter and Switch

Technical Specifications

P499 Series Electronic Pressure Transducers

Pressure Ranges		-10 to 100 psi, 0 to 100 psi, 0 to 200 psi, 0 to 500 psi, 0 to 750 psi
Maximum Working Pressure		2x Pressure Range; short duration; infrequent, abnormal condition
Burst Pressure		5x Pressure Range
Vacuum		30 microns (0.03 mm Hg); short term
Media Compatibility		All media compatible with 17-4PH stainless steel, including ammonia
Output Signal		0.5 to 4.5 VDC, 0 to 10 VDC, or 4 to 20 mA
Supply Voltage	0.5 to 4.5 VDC Ratiometric Output	5.0 $\pm$ 0.25 VDC, Safety Extra-Low Voltage (SELV) or Class 2
	4 to 20 mA Output	9 to 30 VDC, SELV or Class 2
	0 to 10 VDC Output	12 to 30 VDC, SELV or Class 2
Direct-Mount Pressure Connections		1/8in. -27 NPT External Thread (Style 49), 1/4 in. SAE 45° Flare Internal Thread (7/16-20 UNF) with Depressor (Style 47)
Temperature and Humidity	Storage	-40 to 257° F (-40 to 125°C)
	Operating	-40 to 185° F (-40 to 85°C)
	Compensated Range	-4 to 185° F (-20 to 85°C)
	Humidity	0 to 100% RH
Linearity		$\pm$ 0.25% Full Span Best Fit Straight Line
Accuracy		$\pm$ 1% Full Span (maximum) over compensated temperature range
Materials	Pressure Port	17-4PH stainless steel construction
	Packard Connector	40% glass-filled Polyetherimide (PEI)
Vibration		20G, 20 to 200 Hz
Shock		200G / 11 ms
Compliance 	United States	UL Listed, File E29374, CCN NKPZ UL Recognized for Use in Class I, Division 2 Hazardous Locations, File E322274
	Canada	UL Listed, File E29374, CCN NKPZ7 UL Recognized for Use in Class I, Division 2 Hazardous Locations, File E322274
	Europe	CE Mark – Johnson Controls, Inc., declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC
	Australia/New Zealand	C-Tick Mark, Emissions Compliant

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult Johnson Controls/ PENN Refrigeration Application Engineering at 1-800-275-5676. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.



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