



TRANSDUCERS AND SENSORS PRESSURE TRANSDUCER

P599

ELECTRONIC PRESSURE TRANSDUCER

The P599 series electronic pressure transducers are compact, economical, rugged, direct-mount pressure transducers designed for use in commercial and industrial refrigeration and air conditioning applications.

These transducers provide a proportional analog signal based on the sensed pressure.

The P599 series transducers feature environmentally protected electronics with stainless steel construction. The digitally compensated P599 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 304L stainless steel. No o-rings or organic materials are exposed to the pressure media, allowing for a leak-proof, all-metal, sealed pressure system. The P599 series transducers operate with any corrosive or non-corrosive refrigerants that are compatible with stainless steel (304L SS), including water condensate, carbon dioxide, glycol, most refrigerants (including ammonia) and many other compatible fluids and gases. The P599 transducers also can be used with the following natural refrigerants: NH₃ (ammonia) and CO₂ (carbon dioxide) in accordance with hazardous location requirements.

The P599 series provides transducers in a variety of pressure ranges, covering most common refrigeration and air conditioning applications.

FEATURES

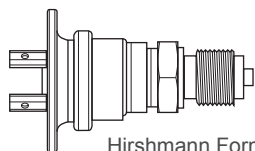
- **Industrial Duty Design** – Offers a sealed design that includes a snubber to dampen pressure pulsations and has no o-rings for reliable performance in the most harsh environments.
- **10 Million Plus Full Scale Pressure Cycle Rated Life Span** – Provides life use with no degradation of accuracy or performance over the life of the transducer.
- **Approved for Today's Refrigerants** – Use with an extensive number of refrigerants, including HCFC, HFC, CO₂ and ammonia.
- **Environmentally Protected Electronics** – Provide high vibration tolerance and prevent ingress and egress that can occur through suction line icing and thawing.



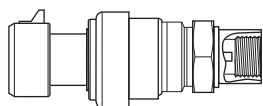


ORDERING INFORMATION

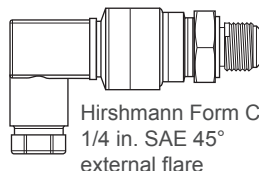
STANDARD MODELS



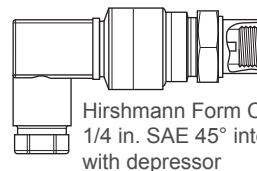
Hirshmann Form A
G3/8 A external



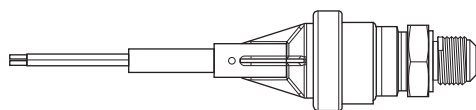
Packard connector
1/4 in. SAE 45°
internal flare with depressor



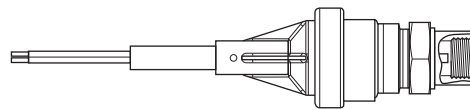
Hirshmann Form C
1/4 in. SAE 45°
external flare



Hirshmann Form C
1/4 in. SAE 45° internal flare
with depressor



2 m Shielded cable
1/4 in. SAE 45° external flare



2 m Shielded cable
1/4 in. SAE 45° internal flare with depressor

0.5 TO 4.5 VDC RATIOMETRIC FOR bar APPLICATIONS

CODES	PRESSURE RANGE		PRESSURE PORT	ELECTRICAL CONNECTOR
	Minimum pressure (Pmin)	Maximum pressure (Pmax)		
P599RCHS401C	-1 bar	8 bar	1/4 in. - SAE 45° internal flare with depressor	Hirschmann® Form C
P599RCPS401C		15 bar		Packard
P599RCPS402C		30 bar		Hirschmann Form C
P599RCHS404C	0 bar	35 bar		Packard
P599RCPS404C		50 bar		Shielded cable
P599RCSS409C	0 bar	52 bar		Packard
P599RCPS405C		59 bar		G3/8 A external
P599RCSS411C		159 bar		
P599RJJSS412C	-1 bar			
P599RJJSS413C				



P599 – PRESSURE TRANSDUCER

ORDERING INFORMATION

0 TO 10 VDC FOR bar APPLICATIONS

CODES	PRESSURE RANGE		PRESSURE PORT	ELECTRICAL CONNECTOR	
	Minimum pressure (Pmin)	Maximum pressure (Pmax)			
P599VBHS401C	-1 bar	8 bar	1/4 in. - SAE 45° external flare	Hirschmann Form C	
P599VCHS401C			1/4 in. - SAE 45° internal flare with depressor		Packard
P599VCPS401C				1/4 in. - SAE 45° external flare	
P599VBSS401C			1/4 in. - SAE 45° internal flare with depressor		Packard
P599VCSS401C		15 bar		1/4 in. - SAE 45° external flare	
P599VCPS406C			1/4 in. - SAE 45° internal flare with depressor	Hirschmann Form C	
P599VBSS402C		0 bar	30 bar		1/4 in. - SAE 45° external flare
P599VCHS402C				1/4 in. - SAE 45° internal flare with depressor	Shielded cable
P599VBHS404C	1/4 in. - SAE 45° external flare				
P599VCHS404C				1/4 in. - SAE 45° internal flare with depressor	Shielded cable
P599VCPS404C	-1 bar	39 bar	1/4 in. - SAE 45° external flare		
P599VBSS404C			0 bar	50 bar	1/4 in. - SAE 45° internal flare with depressor
P599VCSS404C	1/4 in. - SAE 45° external flare	Shielded cable			
P599VCPS407C					1/4 in. - SAE 45° internal flare with depressor
P599VCSS405C					



P599 - PRESSURE TRANSDUCER

4 TO 20 MA FOR bar APPLICATIONS

CODES	PRESSURE RANGE		PRESSURE PORT	ELECTRICAL CONNECTOR
	Minimum pressure (Pmin)	Maximum pressure (Pmax)		
P599ABHS401C	-1 bar	8 bar	1/4 in. - SAE 45° external flare	Hirschmann Form C
P599ACHS401C			1/4 in. - SAE 45° internal flare with depressor	
P599ACPS401C			1/4 in. - SAE 45° internal flare with depressor	Packard
P599ABSS401C			1/4 in. - SAE 45° external flare	Shielded cable
P599ACSS401C			1/4 in. - SAE 45° internal flare with depressor	
P599ABHS402C	-1 bar	15 bar	1/4 in. - SAE 45° external flare	Hirschmann Form C
P599ACHS402C			1/4 in. - SAE 45° internal flare with depressor	
P599ACPS402C			1/4 in. - SAE 45° internal flare with depressor	Packard
P599ACPS403C	0 bar	15 bar	1/4 in. - SAE 45° internal flare with depressor	Packard
P599ABHS404C	0 bar	30 bar	1/4 in. - SAE 45° external flare	Hirschmann Form C
P599ACHS404C			1/4 in. - SAE 45° internal flare with depressor	
P599ACPS404C			1/4 in. - SAE 45° internal flare with depressor	Packard
P599ABSS404C			1/4 in. - SAE 45° external flare	Shielded cable
P599ACSS404C			1/4 in. - SAE 45° internal flare with depressor	
P599ACHS405C	0 bar	50 bar	1/4 in. - SAE 45° internal flare with depressor	Hirschmann Form C
P599ACPS405C				Packard
P599ACSS405C				Shielded cable

ACCESSORIES

WIRE HARNESSES FOR USE WITH PACKARD CONNECTORS

CODES	LENGTH (m)
WHA-PKD3-200C	2.0
WHA-PKD3-400C	4.0
WHA-PKD3-600C	6.0