

ASHCROFT®



## General Purpose Pressure Transmitters

- Available in pressure ranges from -14.7 to 30 psi and 0 to 8000 psi at Grainger.com
- Stainless steel wetted parts

Convert pressure measurements from liquids, gases, and vapors into electrical output signals. Threaded process connections for direct mounting to systems, and available with various electrical connections to connect to compatible control systems for monitoring. See Grainger.com for detailed information on electrical terminations and connections. Commonly used for process automation and control, pneumatic sensing, presses, machine tools, industrial and commercial HVAC and refrigeration applications.

Transmitters with cable and wire leads include 3-ft. cable.

Process Connec. Cable & Wire Leads	Accuracy	Enclosure Rating	Power Req.	Brand	Item No.
<b>1 to 5V DC - 3 Wire</b>					
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4709
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4708
1/16-20-3/4 SAE-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4710
<b>4 to 20mA DC - 2 Wire</b>					
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4706
1/4 in-MNPT	±0.25%	IP66; NEMA 4X	10 to 30V DC	Dwyer	K4702
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4705
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4704
1/4 in-MNPT	±1%	IP66; NEMA 4X	10 to 30V DC	Dwyer	D1632
1/4 in-NPT	±1%	NEMA 4X	10 to 36V DC	Ashcroft	K4703
1/16-20-3/4 SAE-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4707
<b>DIN 43650 Form A Connector</b>					
<b>1 to 5V DC - 3 Wire</b>					
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4700
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4699
1/16-20-3/4 SAE-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4701
<b>4 to 20mA DC - 2 Wire</b>					
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4696
1/16-20-3/4 SAE-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4697
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4698
<b>4-Pin DIN 43650 Form C Connector</b>					
1/4 in-MNPT	±0.25%	IP66; NEMA 4X	10 to 30V DC	Dwyer	D1626
1/4 in-MNPT	±1%	IP66; NEMA 4X	10 to 30V DC	Dwyer	D1633
<b>4-Pin Mini-DIN Hirschmann G Series Connector</b>					
<b>1 to 5V DC - 3 Wire</b>					
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4715
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4714
1/16-20-3/4 SAE-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4716
<b>4 to 20mA DC - 2 Wire</b>					
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4712
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4711
1/16-20-3/4 SAE-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4713
<b>4-Pin M12 Connector</b>					
<b>0 to 10V DC - 2 Wire</b>					
1/4 in-MNPT	±0.75%	IP65	16 to 32V DC	ifm	K4666
1/4 in-MNPT	±0.75%	IP68; IP69K	16 to 32V DC	ifm	K4666
<b>1 to 5V DC - 3 Wire</b>					
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4651
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4650
1/16-20-3/4 SAE-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	D3875
<b>4 to 20mA DC - 2 Wire</b>					
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4718
1/4 in-NPT	±0.25%	IP65; NEMA 4X	9 to 36V DC	Ashcroft	D1674
1/4 in-NPT-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4717
1/4 in-MNPT	±0.75%	IP65	9.6 to 32V DC	ifm	K4668
1/4 in-MNPT	±0.75%	IP68; IP69K	9.6 to 32V DC	ifm	K4668
1/16-20-3/4 SAE-Male	±0.5%	IP67; NEMA 4X	9 to 36V DC	Ashcroft	K4719
<b>1/2 in FNPT Conduit Connection, Screw Terminals</b>					
1/4 in-MNPT	±0.25%	—	10 to 35V DC	Dwyer	D1629
1/4 in-MNPT	±1%	—	10 to 35V DC	Dwyer	D1635

## Absolute Pressure Transmitters

- 4 to 20mA DC output
- Accuracy: ±1% of full scale
- 2 wires
- 10 to 30V DC power required
- Stainless steel wetted parts
- IP66, NEMA 4X enclosure

Measure system pressure against a reference vacuum rather than ambient pressure. Transmit or send output signals to a compatible control panel or monitoring system. Commonly used for process automation and control, pneumatic sensing, presses, machine tools, industrial and commercial HVAC and refrigeration applications.



Pressure Range	Process Connec.	Item No.
<b>4-Pin DIN 43650 Form C Connector</b>		
0 psi to 15 psia	1/4 in NPT	3DRK9
<b>Cable &amp; Wire Leads</b>		
0 psi to 15 psia	1/4 in NPT	2HLV3
0 psi to 15 psia	1/2 in NPT	3DRH3



## ASHCROFT® Indicating General Purpose Pressure Transmitters

- Available in pressure ranges from -14.7 to 15 psi and 0 to 7500 psi at Grainger.com
  - 4 to 20 mA output
  - 1/4" NPT process connection
  - Thin film sensor technology
- Convert pressure measurements from liquids, gases, and vapors into electrical output signals. Connect to compatible systems for pressure control and monitoring.



**Transmitters with 4-pin M12 connector** have a 4-digit LED display with an illuminated band for easy visibility. User adjustable switch settings and analog scaling. Aluminum housing and stainless steel wetted parts.

**Transmitters with screw terminals** have a 4-digit backlight LCD display and user-configurable rangeability for quick range changes. Conduit housing with a threaded process connection and a threaded conduit connection for wiring entry. IP 66, NEMA 4X aluminum housing.

No. of Wires	CHOOSE: Burst Pressure	Accuracy	Process Connection Gender	Power Req.	Item No.
<b>4-Pin M12 Connector</b>					
4	10x Range, 5x Range, 3x Range	±1% of Full Scale	Male	11 to 36V DC	D3896
<b>Screw Terminals; 1/2 in FNPT Conduit Connection Entry</b>					
2	5x Range, 3x Range	±0.25% of Full Scale	Female	12 to 32V DC	D3893



**Explosion-Proof-Rated**  
K4690



**Intrinsically Safe-Rated**  
D3899



**Energy Barrier**  
4FTL5



## Hazardous Location Pressure Transmitters

- Available in pressure ranges from -14.7 psi to 15 psi and 0 to 5000 psi
- NEMA 4X enclosures

Rated for use on industrial processes or in environments with a risk of combustion or explosion.

**Explosion-Proof-Rated transmitters** have housings designed to contain an explosion of specific gases or vapors, preventing further ignition of combustible dust or gas in the environment.

**Intrinsically Safe-Rated transmitters** are designed with circuitry that is incapable of discharging electrical, mechanical, or thermal energy into the atmosphere sufficient to cause a fire or explosion. For use in classified hazardous environments.

**Energy barriers** limit the amount of energy sent to a transmitter in hazardous locations to contain sparks and help prevent fires and explosions.

Output - No. of Wires	Accuracy (Full Scale)	Process Connection Gender	Brand	1/4 in CONNECTION Item No.	1/2 in CONNECTION Item No.
<b>Explosion-Proof-Rated Transmitters</b>					
<b>With Conduit Connection</b>					
4 to 20mA DC / HART Communication	±0.075%	Female	Mercoide	—	K4685
<b>With Conduit Connection &amp; Wire Leads</b>					
4 to 20mA DC - 2 Wires	±0.50%	Female	Ashcroft	K4691	D3841
1 to 5V DC - 3 Wires	±0.50%	Female	Ashcroft	K4688	D3867
4 to 20mA DC - 2 Wires	±0.50%	Male	Ashcroft	K4689	K4687
4 to 20mA DC - 2 Wires	±0.50%	Male	Ashcroft	K4692	K4690
<b>Intrinsically Safe-Rated Transmitters</b>					
<b>With Cable &amp; Wire Leads</b>					
4 to 20mA DC - 2 Wires	±0.25%	Male	Dwyer	D1658	—
<b>With Conduit Shielded Cable</b>					
4 to 20mA DC - 2 Wires	±1%	Male	Ashcroft	D3899	—
<b>With DIN 43650 Form A Connector</b>					
4 to 20mA DC - 2 Wires	±0.25%	Male	Ashcroft	D3836	K4693
	±0.25%	Female	Ashcroft	K4694	K4695
	±0.50%	Female	Ashcroft	K4694	K4695
	±0.50%	Male	Ashcroft	D3836	K4693
<b>Description</b>					<b>Item No.</b>
<b>Energy Barriers for Flammable Applications</b>					
For use with Dwyer pressure transmitters				Dwyer	4FTL5