

# Two Wire Gage/Absolute Pressure Transmitters

## Model 415 and 440

4-20mA OUTPUT

ACCURACY 0.1% TO 0.25% F.S.

WELDED STAINLESS



Two-wire transmitter Models 415 and 440 offer rugged, stainless steel construction suitable for even the harshest working environments. These models are available with zero and span adjustments and operate with a supply voltage from 15 to 32 VDC. Two-wire, 4-20mA output is provided. Both models set the accuracy standards for their competitive niches. The Model 415 offers an accuracy of 0.1% while the Model 440 offers an accuracy of 0.25% F.S.

A wide range of electrical connectors are offered, with a DIN-type as standard on the Model 440. This connector offers many significant advantages to the user, including flexibility to use any cable size between 4.5 mm and 14 mm or utilize a 1/2" NPT conduit fitting. It has the convenience and advantage of being a solderless and water-resistant connection, as well as allowing the user to turn the vibration-proof mating connector in any direction to achieve optimum cable clearance and cable/conduit run paths.

These characteristics and extremely competitive prices make the 415 and 440 units perfect for industrial transmitter applications like bulk liquid inventory control, steam management, and other power plant applications.

### Dimensions

#### Gage Model 415 (Order Code AP411) Absolute Model 415 (Order Code AP412)

##### Available Ranges

2; 5; 10; 15; 25; 50; 75; 100; 150;  
200; 300; 500; 750; 1000 psi  
1500 psi  
2000; 3000; 5000; 7500; 10,000 psi  
20,000 psi

D"

L"

1.5 (3.81 cm)	3.3 (8.38 cm)
1.5 (3.81 cm)	3.24 (8.23 cm)
1.5 (3.81 cm)	3.00 (7.62 cm)
1.5 (3.81 cm)	3.085 (7.84 cm)

#### Gage Model 440 (Order Code AP415) Absolute Model 440 (Order Code AP416)

##### Available Ranges

5; 15; 25; 50; 75; 100;  
150; 200; 300; psi  
500; 750; 1000; 1500; 2000  
2500; 3000; 5000; 7500;  
10,000 psi

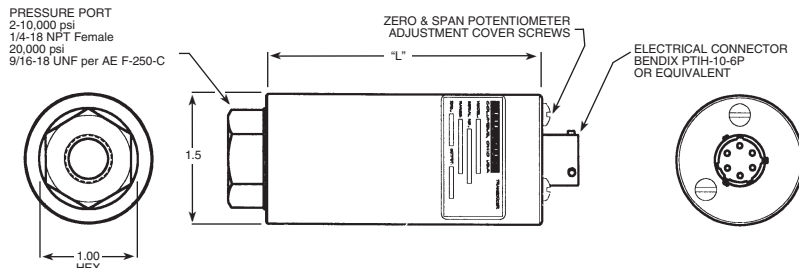
D"

L"

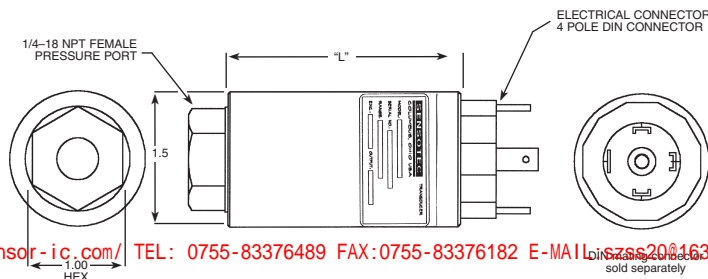
1.5 (3.81 cm)	2.6 (6.60 cm)
1.5 (3.81 cm)	3.3 (8.38 cm)
1.5 (3.81 cm)	3.0 (7.62 cm)

(Bold ranges are available from stock, gage only)

#### MODEL 415 (2 PSI-20,000 PSI)



#### MODEL 440 (5 PSI-10,000 PSI)



		<b>Model 415 (0.1%)</b>	<b>Model 440 (0.25%)</b>
		<b>Gage: Order Code AP411 Absolute: Order Code AP412</b>	<b>Gage: Order Code AP415 Absolute: Order Code AP416</b>
<b>PERFORMANCE</b>	Pressure Ranges.....	2 to 20,000 psi	5 to 10,000 psi
	Accuracy (min) .....	±0.1% F.S.	±0.25% F.S.
	Combined Non-Linearity, Hysteresis, Non-Repeatability .....	0.10% BFSL	0.2% BFSL
	Output.....	4-20mA	4-20mA
	Resolution .....	Infinite	Infinite
<b>ENVIRONMENTAL</b>	Temperature, Operating .....	-20°F to 200°F	-20°F to 185°F
	Temperature, Compensated .....	60°F to 160°F	30°F to 130°F
	Temperature Effect		
	-Zero (max) .....	0.005% F.S./°F.	0.01% F.S./°F
	-Span (max) .....	0.007% Rdg./°F	0.01% Rdg./°F
<b>ELECTRICAL</b>	Supply (acceptable).....	15 to 32VDC	9 to 32VDC
	Max Load Resistance* .....	1000 ohms	1000 ohms
	Wiring Code (std) .....	Sensotec #23	Sensotec #36
	Electrical Termination (std).....	PTIH-10-6P or equiv. (Hermatic stainless)	DIN 43650 Water Resistant
	Mating Connector (not incl.).....	PT06A-10-6S or equiv.	DIN mating connector with solderless terminal**
	Zero & Span Adjustment .....	Access through o-ring sealed screws	Located under top cover
<b>MECHANICAL</b>	Media.....	Liquid, Gas	Liquid, Gas
	Overload-Safe .....	50% over capacity	50% over capacity
	Overload-Burst .....	200% over capacity	200% over capacity
	Pressure Port .....		
	2 to 10,000 psi .....	1/4-18 NPT female	1/4-18 NPT female
	20,000 psi .....	9/16-18 UNF per AE F-250-C	NA
	Wetted Parts Material.....	Stainless Steel	Stainless Steel
	Type .....	Gage or Absolute	Gage or Absolute
Weight .....	13 oz.	13 oz.	
Case Material .....	Stainless Steel	Stainless Steel	

\*Maximum load resistance is 500 ohms at 23VDC.

\*\*Specify cable dia. can handle 4.5 mm to 14 mm or 1/2" NPT conduit fitting.

## Options (See Appendix)

### Options: Model 415 only

- Temperature compensation 1b; 1c
- Pressure ports 5a; 5b; 5c; 5d
- Electrical connection 6e; 6f; 6g; 6h

### Options: Model 440 only

- CE marking 9e

### Premium Options: Model 415 only

- Electrical termination 6i; 6j
- Special calibration 9a
- 316SS construction 10a

### Accessories: Model 415, Model 440

- Mating connectors
- Connector/cable assemblies
- Pressure port adapters

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传真：0755-83376182 (0) 13902971329 MSN: [SUNS8888@hotmail.com](mailto:SUNS8888@hotmail.com)

邮编：518033 E-mail:[szss20@163.com](mailto:szss20@163.com) QQ: 195847376

深圳赛格展销部：深圳华强北路赛格电子市场 2583 号 电话：0755-83665529 25059422

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上海分公司：上海市北京东路 668 号上海赛格电子市场 2B35 号

TEL: 021-28311762 56703037 13701955389 FAX: 021-56703037

西安分公司：西安高新开发区 20 所(中国电子科技集团导航技术研究所)

西安劳动南路 88 号电子商城二楼 D23 号

TEL: 029-81022619 13072977981 FAX:029-88789382