

Low/Mid Range Two Wire Wet/Wet Differential Pressure Transmitters

Model 420 DP

OEM APPLICATIONS

STAINLESS STEEL

0.5% ACCURACY



Low Range



Mid Range

SENSOTEC's Model 420 DP Two-Wire Low and Mid Range Differential pressure transmitters utilize supply voltage of 15 to 40 VDC to produce a two-wire 4-20mA process loop output for differential pressure ranges of 2 to 750 psid. A minimum full scale accuracy of 0.5% is achieved. Stainless steel construction ensures durability under harsh, industrial conditions. Both Low and Mid Range units include Zero and Span adjustments. Typical applications for these models include steam management, bulk liquid inventory, and flow measurement. High range (2000 to 10,000 psid) units are presented on the next two pages.

Dimensions

Model 420 DP

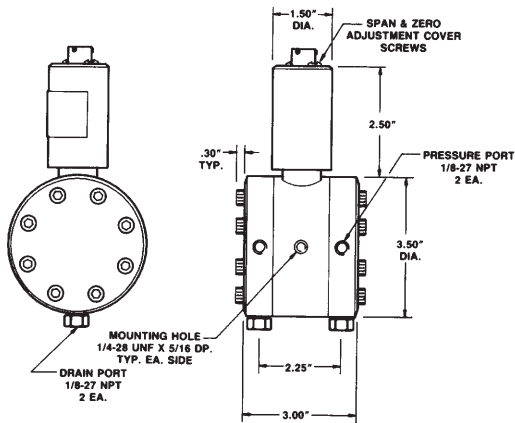
Low Range (Order Code AD411)

Mid Range (Order Code AD412)

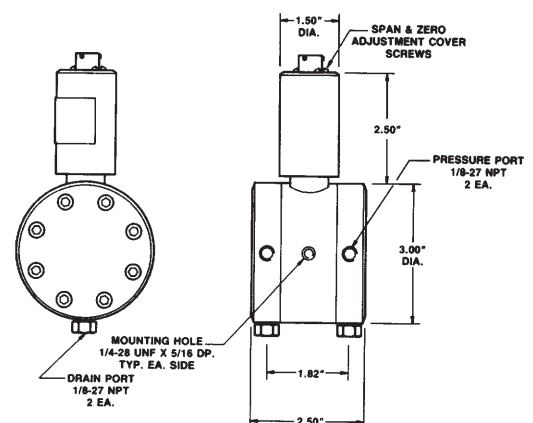
Available Ranges

2; 5; 10; 15; 25 psid

50; 75; 100; 150; 200; 300; 500; 750 psid



Low Range



Mid Range

Options (See Appendix)

Temperature compensated 1a (low range only), 1b (mid range only), 1c; Electrical termination 6e, 6f, 6g, 6h

Premium Options: 3d; 5c; 6i, 6j; 25a (low range only), 25b (low range only), 25c (low range only); 26a, 26c

Accessories: Mating connectors and connector/cable assemblies; Pressure port adapters

Model 420 DP

	Low Range Order Code AD411	Mid Range Order Code AD412	
PERFORMANCE	Pressure Ranges.....	2 to 25 psid	50 to 740 psid
	Accuracy.....	±0.5% F.S.	±0.5% F.S.
	Non-Linearity (max).....	±0.25% F.S.	±0.25% F.S.
	Hysteresis (max).....	±0.13% F.S.	±0.13% F.S.
	Non-Repeatability (max).....	±0.07% F.S.	±0.07% F.S.
	Output.....	4-20mA	4-20mA
Resolution.....	Infinite	Infinite	
ENVIRONMENTAL	Temperature, Operating.....	0° F to 180° F	0° F to 180° F
	Temperature, Compensated.....	30° F to 130° F	60° F to 160° F
	Temperature Effect		
	- Zero (max).....	1.0% F.S./100° F	1.0% F.S./100° F
	- Span (max).....	1.0% Rdg./100° F	1.0% Rdg./100° F
ELECTRICAL	Strain Gage Type.....	Bonded foil	Bonded foil
	Supply*.....	15-40VDC	15-40VDC
	Max. Load Resistance*.....	500 ohms	500 ohms
	Wiring Code (std).....	#23 (See Pg. AP-8)	#23 (See Pg. AP-8)
	Electrical Termination (std).....	PTIH-10-6P or equivalent (Hermetic stainless)	PTIH-10-6P or equivalent (Hermetic stainless)
	Mating Connector (not incl.).....	PT06A-10-6S or equiv.	PT06A-10-6S or equiv.
MECHANICAL	Media.....	Liquid, Gas	Liquid, Gas
	Maximum Line Pressure.....	1500 psi	1500 psi
	Maximum Overload.....	1500 psi either side	1500 psi either side
	Pressure Port.....	1/8-27NPT female	1/8-27NPT female
	Wetted Parts Material.....	316 Stainless	17-4 PH Stainless
	Case Material.....	Stainless steel	Stainless steel

Notes * For supply voltage under 20VDC, a load resistance of less than 500 ohms is required.
 * Unless otherwise specified on order, amplified units with **4-20mA output will provide 4mA at 0 psid and 20mA at positive full scale** and the unit will not operate in the negative direction. An available alternative is to specify 4mA at negative full scale and 20mA at positive full scale.

General Information

How to order (See Pg. AP-19)
 Differential pressure selection flow chart (See Pg. DP-1)

DIFFERENTIAL TWO-WIRE

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