

Model A2 Heavy Industrial PressureTransmitter



LOOK FOR THIS MARK ON OUR PRODUCTS

APPLICATIONS:

Test stands, compressor control, hydraulic systems, process automation, pump and pneumatic systems control

FEATURES:

- Pressure ranges from 5 psi through 10,000 psi
- CE mark
- 316L SS wetted materials
- 304 SS case
- Six output signals to choose from
- Optional absolute pressure ranges
- · Optional external zero and span potentiometers

The Ashcroft® A2 pressure transmitter is ideal for a broad spectrum of pressure sensing requirements found in heavy industrial, and test and measurement applications. It offers the instrument specifier a wide choice of construction and performance variables.

The Ashcroft® A2 is designed and manufactured to provide the user with accurate, reliable, and stable output data. This is accomplished through the use of an on board microprocessor, that is programmed during a unique digital compensation process, to provide extremely linear and precise performance over the entire specified pressure and temperature range.

PERFORMANCE SPECIFICATIONS

Reference temperature 70°F (21°C) Accuracy, Three Classes (% Span): Includes non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors Best Fit Straight Line* (BFSL): ±.20 ±.40 Includes non-linearity hysteresis, non-repeatability errors *Add ±.05% for ranges above 5000 psi

 $\begin{array}{l} \textbf{Stability:} \\ \leq \pm 0.25\% \text{ Span/year } @ \text{ reference conditions} \end{array}$ Durability: Greater than 10 million cycles

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits: 40 to +125°C Storage: -40 to 257°F Process: -40 to +125°C –40 to 257°F Operating: -40 to +125°C -40 to 257°F Compensated*:-20 to +85°C -4 to 185°F) *Consult factory for other options

Temperature Effects: -20 to +85°C (-4 to 185°F) 1.0% of Span for .25% Accuracy Class
2.0% of Span for .50% and 1.0% Accuracy Classes

Humidity Effects: No performance effects from 0 to 95% relative humidity, non-condensing, 0-100% RH with "W" enclosure.

*Consult factory

FUNCTIONAL SPECIFICATIONS

Respone Time: <2ms

Pressure Ranges: Vacuum, gauge, compound and absolute pressure from 0-5 psi through 0-10,000. Equivalent ranges in bar available. See order guide section (reverse.)

Vibration Effect:

100g Peak, 11ms 10g RMS, 20-2000Hz 50-2000Hz, 5g peak Shock: Random: Sweep: Position Effect: ± 0.02% Typical

CE Mark (standard): EN 61326:1997 + A1: 1998 Annex A Heavy Industrial Immunity (Annex A, Table A.1) Light Industrial/Residential Emission (Table 4)

Overpressure (F.S.)*: **Proof** 1.5 x F.S. Burst min. 2 x F.S. 0#/vac. to 300 psi 500-10,000 psi 1.2 x F.S. *For higher overpressure ratings use XK8 option. See page 2 for additional option.

ELECTRICAL SPECIFICATIONS

Output Oigin	ai. Ou	ppiy voitago	. (unitoguiato
		Minimum	Maximum
0-5Vdc	(3 Wire)	12Vdc	36Vdc
0-10Vdc	(3 Wire)	14Vdc	36Vdc
1-5Vdc	(3 Wire)	10Vdc	36Vdc
1-6Vdc	(3 Wire)	10Vdc	36Vdc
4-20mA	(2 Wire)	12Vdc	36Vdc
0.5-4.5	(3 Wire)	4.5Vdc	5.5Vdc
Ratiometric	,		

Power Requirements:

Supply Current: <5mA for voltage outputs

Electrical Terminations: See To Order section (reverse) for options

Circuit Protection: Reverse polarity and mis-wire proected Insulation Resisance (Circuit to Case): 100Mohm @ 30Vdc

PHYSICAL SPECIFICATIONS

Case: Material 304SS

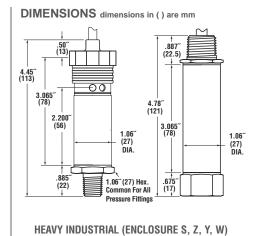
Wetted Materials: 316L SS diaphragm and presure port, optional 17-4PH SS diaphragm and 316L SS pressure port (see How to Order Section).

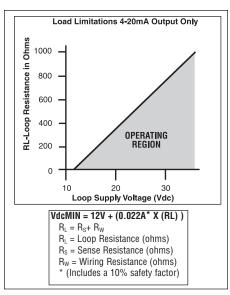
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Enclosure	Code	Rating		
Basic	(S)	IP65, NEMA 4X		
Zero/Span	(Z)	IP65, NEMA 4X		
All Welded (w/Z/S)	(Y)	IP65, NEMA 4X		
All Welded (w/o Z/S)	(W)	IP67, NEMA 6		

Refer to Ashcroft Model A2X for Explosion / Flame Proof configurations and Ashcroft Model A4 for Intrinsically Safe/Non-Incendive applications.



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XK8 OVERPRESSURE (F.S.)

	<u>Proof</u>	<u>Burst</u>
0 to 2000 psi	200%	800%
3000 to 5000 psi	150%	300%
7500 to 10,000 psi	120%	150%

NOTE:

Refer to Ashcroft Model A2X for Explosion / Flame Proof configurations and Ashcroft Model A4 for Intrinsically Safe /Non-Incendive applications.

How To Order

