

Model A2X Explosion/Flame Proof **Pressure Transmitter**

APPLICATIONS:

Oil field equipment, upstream oil and gas production, natural gas compression and transfer control, alternative energy projects

FEATURES:

cUL and ATEX listed

- Choice of 0.25, 0.50 or 1.0% accuracy
- Pressure ranges from 5 psi through
- 10,000 psi
- CE mark
- 316L SS wetted materials, 17-4 PH optional
- 304 SS case

LOOK FOR THESE MARKS ON OUR PRODUCTS

- Six output signals to choose from
- Optional absolute pressure ranges available

The Ashcroft® A2X pressure transmitter is ideal for a broad spectrum of pressure sensing requirements requiring approvals for explosion/flame proof.

The Ashcroft® A2X 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): + 25 +0.5 +1.0Includes non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors Best Fit Straight Line* (BFSL): $\pm .20 \pm .40 \pm .5$ Includes non-linearity hysteresis, non-repeatability errors ±.40 ±.50 *Add ±.05% for ranges above 5000 psi

Stability: $\leq \pm 0.25\%$ Span/year @ reference conditions Durability: Greater than 10 million cycles

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits: Storage: -40 to +125°C Process: Operating: Compensated*:-20 to +85°C

(-40 to	257°F)
(-40 to	257°F)
		257°F)
i		185°F)

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:

Shock:	100g Peak,	11ms		
Random:	10g RMS, 2	0-2000Hz		
Sweep:	50-2000Hz,	5g peak		
Position Effe	ect: ± 0.02%	Typical		
CE Mark (sta	andard): EN (61326:1997	+ A1: 1998 A	Annex A
Heavy Indus	trial Immunit	v (Annex A,	Table A.1)	
Light Industrial/Residential Emission (Table 4)				
Overpressur	e (F.S.)*:	Proof	Burst	
0#/vac. to 30	DO`psi í	1.5 x F.S.	min. 2 x F.	S.
500-10,000	psi	1.2 x F.S.	1.5 x F.S.	
*For higher	overpressure	ratings use	XK8 option.	

See page 2 for additional option. **ELECTRICAL SPECIFICATIONS** h,

al: S	upply Voltage:	(unregulated
	Minimum	Maximum
(3 Wire)	12Vdc	36Vdc
(3 Wire)	14Vdc	36Vdc
(3 Wire)	10Vdc	36Vdc
(3 Wire)	10Vdc	36Vdc
(2 Wire)	12Vdc	36Vdc*
(3 Wire)	4.5Vdc	5.5Vdc
. ,		
	(3 Wire) (3 Wire) (3 Wire) (3 Wire) (2 Wire)	Minimum (3 Wire) 12Vdc (3 Wire) 14Vdc (3 Wire) 10Vdc (3 Wire) 10Vdc (2 Wire) 12Vdc

*30Vdc max for Intrinsically Safe installations

Power Requirements:

Supply Current: <5mA for voltage outputs

Electrical Termination:

1/2 NPT male conduit with flying leads or shielded cable 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). Ingress Protection Rating: IP65; NEMA 7,9

HAZARDOUS AREA CERTIFICATIONS

Explosion Proof – cUL (USL/CNL): Specify A2X Class I, Div. 1 & 2, Groups A, B, C and D Class II, Div. 1 & 2, Groups E, F and G

Flame Proof – ATEX: Specify A2X

CE S II 2 Ex d IIC T4

NOTE: For 4-20mA units following approvals also apply: Intrinsically Safe – FM/CSA: Class I, Div. 1 Class I, Div. 2, Non-Incendive

Refer to Ashcroft drawing #825A022 for wiring and installation requirements.

NOTE:

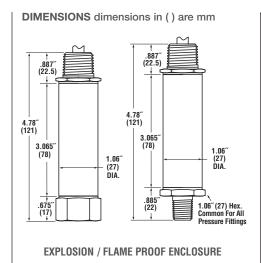
Refer to Ashcroft Model A2 for Heavy Industrial, non-Hazardous rated configurations and Ashcroft Model A4 for Intrinsically Safe/non-Incendive applications.

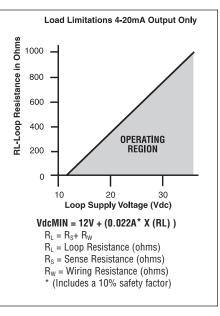
-40 to +125°C -40 to +125°C *Consult factory for other options

(10 +	. 05	700
(–40 t	.0 25	11
(–40 t	:0 25	7°F
(−40 t		
(̀ −4 t	:0 18	5°F



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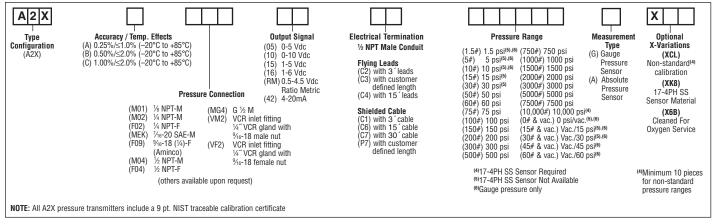
XK8 OVERPRESSURE (F.S.)

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

NOTE:

Refer to Ashcroft Model A2 for Heavy Industrial, non-Hazardous rated configurations and Ashcroft Model A4 for Intrinsically Safe/non-Incendive applications.

How To Order



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