

DIGITAL EPIC POSITION TRANSMITTERS

EXPLOSIONPROOF/FLAMEPROOF - ATEX/IEC/NEC

Position Transmitters that provide discrete position control and precision, non-contact position feedback with digital communication via HART[®] protocol for linear or rotary control valves in a simple, integrated package.



TECHNICAL DATA

Agency approvals Area classification (ATEX/IEC) D410/D420

Area classification (NEC 500) D410/D420

Enclosure standards (IEC) Enclosure standards (ANSI/NEMA 250) **Enclosure** Ex d IIB+H2 AEx d IIB+H2 Ex nA IIC AEx nA IIC

Class I, Division 1, Groups B,C & D Class I, Division 2, Groups A,B,C & D Class II, Division 1, Groups E,F & G Class III IP66 Type 4X Aluminum with powder coat finish

FEATURES

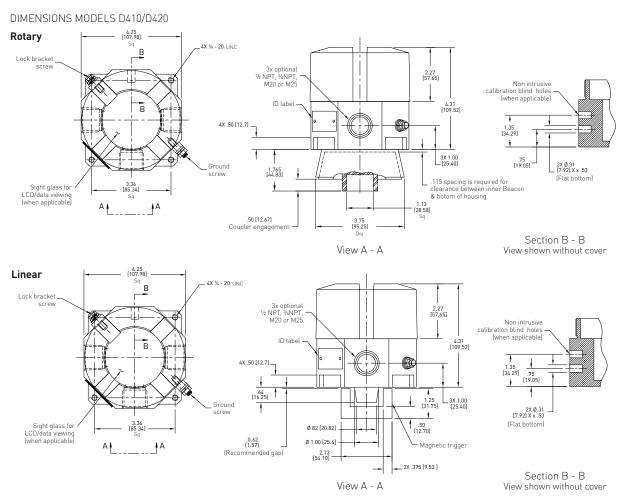
- Microprocessor based technology allows digital communication via HART[®] protocol.
- Model D410 features remote and local partial stroke test (PST) and emergency shut down (ESD) initiated remotely via HART[®] signal or locally at the device for safety system applications.
- Non-intrusive' magnetic calibration input sensors on outside of the D410 enclosure allow calibration without removing the cover, maintaining safety in a potentially explosive environment.
- Valve position measurement via a noncontact magnetic sensor eliminates mechanical drive arms or linkages increasing reliability in high cycle applications or where vibration is present.
- Highly visible position indicator.
- Site glass on Model D410 gives view to the product's LCD display.
- Extra conduit entries and internal terminal points are provided for mounting and backwiring of a solenoid valve.
- Low copper content aluminum enclosure with polyurethane enamel coating assures both strength and corrosion resistance.

GENERAL APPLICATION

Digital EPIC position transmitters are ideal for applications with sophisticated process patterns and those that require partial stroke testing (PST) or remote emergency shut down (ESD) initiation.

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Dimensions in inches, metric dimension (mm) in parentheses

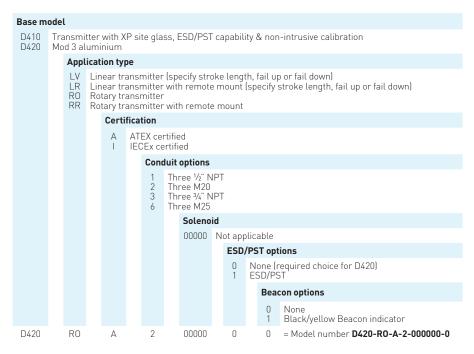
TECHNICAL SPECIFICATIONS

1/2"NPT 3/4"NPT M20 M25
4 - 20 mA proportional to valve position
10 to 30 V
± 1.0% F.S.
60° to 120°
30% of calibration span
≤ 0.05% F.S.
Negligible
-40°C to +85°C (-40°F to +185°F)
≤ 0.01% F.S./°C
10% to 90% non-condensing
≤ 0.2% F.S. from 10 V DC to 30 V DC
Protected
Any position
0.5 seconds
25 ms

NOTES

* Linearity is applicable for rotary and linear with stroke 2" and under.

D410/D420 (ATEX/IEC)



NOTES

- 1. Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
- 2. See Hazardous area classification technical bulletin for further information on global standards.
- 3. Valve stroke and fail position must be specified at time of quotation for LV and LR options

D410/D420 (NEC)

Base model					
D410 D420	thre	Aluminum enclosure with XP site glass, ESD/PST capability and non-intrusive calibration [includes three ¾" NPT [F]] Aluminum enclosure with three ¾" NPT [F]]			
	Application type				
		LV LR RO RR	Linear transmitter ^[3] Linear transmitter with remote mount option ^[3] Rotary transmitter Rotary transmitter with remote mount option		
	ESD/PST				
			0 1	None (required choice for D420) ESD/PST function (required choice for D410)	
D410		RO	1	= Model number D410R01	



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 $\textbf{Westlock.} \ \text{We reserve the right to change designs and specifications without notice.}$