

## NEW! DIGITAL EPIC D200

### A NON-CONTACT POSITION TRANSMITTER WITH HART 7 PROTOCOL



#### KEY FEATURES

##### NON-CONTACT POSITION FEEDBACK DESIGN

Offers greater reliability and longer operational life, better plant availability and less maintenance up to 70%\*

##### EASE OF COMMISSIONING

With simple push button calibration and local digital display and lower installation time up to 80%

##### VERSATILE, GLOBALLY CERTIFIED\*

For use in hazardous areas, the D200 transmitter is available in a range of enclosure material options for global use\*\*

##### EASE OF CONFIGURATION

Meets NAMUR NE43 standard, calibration and diagnostics utilizing the latest communication technology, HART @7 protocol with DD/FDT® DTM

##### FLEXIBLE SWITCH OPTIONS

Flexibility to host a variety of switches and sensors to provide additional end-of-travel indication\*\*\*

#### BENEFITS

- Improved linearity
- Reduced hysteresis (position accuracy)
- Easy Calibration
- Installation time reduced by 80%
- Wider range of temperature & Hazardous application certification coverage (vs. competition)
- Switch feedback options
- Increased diagnostics

\*vs. Use of gears and potentiometer

\*\*ATEX/IEC/NEC/CEC: Explosion-proof/Flameproof, Intrinsically Safe & Non-Incendive

\*\*\*See ordering guide for available switch options



# DIGITAL EPIC D200

A NON-CONTACT POSITION TRANSMITTER WITH HART 7 PROTOCOL



STAINLESS STEEL	 <b>D251/D250</b>	 <b>D291/D290</b>	 <b>D271/D270</b>
	 <b>D241/D240</b>	 <b>D281/D280</b>	 <b>D261/D260</b>
	 <b>D230</b>		
	<b>INTRINSICALLY SAFE/ NON-INCENDIVE</b>	<b>EXPLOSIONPROOF/ FLAMEPROOF</b>	<b>EXPLOSIONPROOF/ FLAMEPROOF</b>

- 4-20mA analog signal
- Hart 7 Digital Communication
- LCD 3.5 Digit display with diagnostics
- Displays mA, position open, and position closed
- Bi-Color LED's
- Visual position monitor
- Control monitor with solenoid
- Non-Contact TMR Feedback Sensor standard
- Through Shaft Potentiometer feedback optional
- Mounting orientation insensitive
- Push Button Calibration (CW, CCW)
- Rotation up to 30–330° TMR or 30–200° Potentiometer
- DD and DTM
- Remote Configuration via HART®
- Global Intrinsically Safe Certification
- End of travel switches (optional)

## APPROVALS

Model		Materials	Agency Approvals <sup>[1] [2]</sup>	
No Solenoid	Falcon V Solenoid		North America	ATEX/IECEX
	D230	Engineered Resin		
D241	D240	Low Copper Content Aluminum	IS Cl. I, II, III, Div. 1 Grps ABCDEFG, Cl. III; T6; Type 4X NI Cl. I, Div. 2, Grps ABCD, T6; Type 4X	II *GD Ex ia II* T* G* Ex tb IIIC T135°C Db IP6X Tamb: -°C to +°C
D251	D250	316 Stainless Steel		
D261	D260	Low Copper Content Aluminum		II 2GD Ex db IIC T* Gb Tamb: -60°C to +°C
D271	D270	316 Stainless Steel	Cl. I, Div. 1, Grps ABCD; Cl. II & III, Div. 1 Grps EFG NI Cl. I Div. 2, Grps ABCD	Ex tb IIIC T *°C Db Tamb: -60°C to +°C IP6X
D281	D280	Low Copper Content Aluminum	Cl. I Div. 1, Grps CD; T* Cl. II Div. 1, Grps EFG; T* Cl. I, Zone 1 AEx db/Ex db IIB+H2 T* Zone 21, AEx tb/Ex tb IIIC T* Db IP6X NI Cl. 1, Div. 2, Grps ABCD; T*	II 2 GD Ex db IIB+H2 T*, Gb Tamb: -°C to +°C Ex tb III C T* Db Tamb: -°C to +°C IP6X
D291	D290	316 Stainless Steel	Type 4/4X, IP66/67 Ta= -°C to +°C	

### Approval Notes:

<sup>[1]</sup> This information can change dependent on the construction, refer to the product certification.

<sup>[2]</sup> For T-Class/Ambient range, refer to the product certification.

### LIMIT SWITCH CAN INCORRECTLY INDICATE CLOSED WHEN THE VALVE IS NOT FULLY IN THE SEAT, DUE TO THE FOLLOWING REASONS:

- Debris in valve
- Incorrect adjustment of switch
- Wear of automated valve package

### USING SWITCHES MAY GIVE A FALSE SENSE OF CONFIDENCE THAT THE VALVE IS CLOSED WHEN IN FACT IT IS NOT.

This can be due to the inherent hysteresis of switches and sensors compounded by inaccurate or inconsistent setting.

In high pressure steam applications for example this valve being open by even 1° can have detrimental effects such as cavitation or erosion commonly known as wire draw.

### APPLICATION RECOMENDATION:

- Triple Offset Valve
- High Performance Butterfly Valve
- Critical process valves

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