WESTLOCK
CONTROLS

NEW! DIGITAL EPIC D200

A NON-CONTACT POSITION TRANSMITTER WITH HART 7 PROTOCOL

HART COMMUNICATION 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 costs 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

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DIGITAL EPIC D200

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STAINLESS STEEL	 D251/D250	 D291/D290	 D271/D270
ALUMINUM	 D241/D240	 D281/D280	 D261/D260
RESIN	 D230		
	INTRINSICALLY SAFE/ NON-INCENDIVE CL. I, DIV. 1 CL. I, DIV. 2	**EXPLOSIONPROOF/ FLAMEPROOF** ATEX/IECEX II 2 GD EX DB IIB+H2	**EXPLOSIONPROOF/ FLAMEPROOF** CL. I, DIV. 1 GRPS ABCD ATEX/IECEX II 2 GD EX DB IIC

- 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 30–210° Potentiometer or 30–330° TMR
- DD and DTM
- Remote Configuration via HART®
- Global Intrinsically Safe Certification
- End of travel switches (optional)

APPROVALS

Model		Materials	Agency Approvals	
No Solenoid	Falcon V Solenoid		North America	ATEX/IECEx
	D230	Engineered Resin	Cl. 1, Div. 2, Grps ABCD; Nonincendive Cl. II & III Div. 2, Grps EFG; Type 4, 4X	EX ia IIC T4 Ga Ta = -40°C to +80°C IP66/IP67 EX nA T4 Gc Ta = -40°C to +80°C IP66/IP67
D241	D240	Low Copper Content Aluminum		
D251	D250	316 Stainless Steel		
D261	D260	Low Copper Content Aluminum	Cl. I, Grps ABCD; Cl. II, Grps EFG, Type 4/4X; Cl. I Div. 2, Grps ABCD/T4, Ta=60°C	II 2 GD Ex db IIC T*, Ex tb IIIC T*, IP66/67
D271	D270	316 Stainless Steel		
D281	D280	Low Copper Content Aluminum	Cl. I, Div. 1 Grps CD T6 Ta=60°C; Cl. II Div. 1, Grps EFG T6 Ta=60°C Type 4/4X; Cl. I Div. 2, Grps ABCD T4, Ta=60°C	II 2 GD Ex db IIB+H2 T*, Ex tbIIIC T*, IP 66/67
D291	D290	316 Stainless Steel		

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 detremental 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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