

Minimize Costly Downtime in Process Applications

TopWorx™ PD Series Smart Valve Positioners

PRODUCT



Safe, Efficient Operation in Demanding Environments

- **Smart.** The TopWorx PD Series is an integrated valve control device equipped with precision analog positioning sensors. Customers can integrate with various systems (including HART®) and receive diagnostic feedback on equipment performance and required maintenance intervals.
- **Reliable.** Utilizing hall-effect sensors, the TopWorx PD Series detects valve position via contactless sensing –minimizing wear and reducing the risk of costly downtime.
- **Versatile.** Units are compact and can be installed on rotary or linear, single or double action actuators in multiple sizes and configurations.
- **Easy to Use.** Simple auto-calibration combined with a large easy to read LCD screen and local user interface make the TopWorx PD Series easy to install, operate and maintain.

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CONSIDER IT SOLVED™

Increase Productivity, Reduce Maintenance

The TopWorx™ PD Series Smart Valve Positioner has a compact, robust design suitable for both linear and rotary valves in demanding environments. With push-button autocalibration capabilities, it provides precise valve feedback and data, enables complete valve control and is HART-capable, offering a 4-20 milliamp-loop with optional dual discrete outputs. Designed to reduce air consumption and response times, the TopWorx PD Series' hall-effect contactless design also eliminates points of failure during operation, minimizing the risk of downtime in process applications. All models include field adjustment and functionality, and some do this without the need to remove the enclosure cover, speeding up routine maintenance while preserving original seals against environmental ingress.

Technical Features

- Hall effect, contactless position sensing
- Feedback through 4–20 mA and discrete signals
- HART® capable with configurable alarms
- Autocalibration features
- Mechanical and magnetic buttons for easy operation
- Local user interface with liquid crystal display
- Easy to install — can be mounted at any angle
- Mounting options for both rotary and linear applications

Applications

- Fluid Control – Industrial Pumps, Valves & Manifolds
- Oil & Gas Refining
- Power Generation
- Chemicals & Pharmaceuticals
- Food & Beverage
- Water/Wastewater Treatment
- Pulp & Paper
- Marine & Shipping
- Industrial Utilities
- Machine Automation

PD Series	
Analog Input Signal	4–20 mA DC, nominal
Minimum Voltage	8.5 VDC (Analog control) 9.0 VDC (HART communication)
Air Supply Pressure	2.8 to 8 bar (40 to 116 psi)
Temperature Limits	-40°C to +75°C (-40°F to +167°F)
Hysteresis	1.5% of Full Scale
Repeatability	1.5% of Full Scale
Valve Action	Single, double, direct action (DA) reverse action (RA)
Actuator Signal	0% to 100% of the supply pressure
Certifications	General Purpose & Intrinsically Safe cULus, ATEX/IECEX, CE
Environmental Rating	IP 66 Type 4X
Display Type	LCD, 4 numeric digits (PD100); LCD, 4.5 numeric and 6 alphanumeric digits (PD200)

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For more information:
www.Emerson.com/TopWorx

