

Improve Plant Reliability and Safety

DX PST with HART® 7 provides valve diagnostic data for critical applications.



HART
COMMUNICATION PROTOCOL

Smart, Reliable and Adaptive

- HART protocol seamlessly integrates with control systems, delivering insights into valve conditions and providing maintenance feedback.
- Certified for hazardous applications, devices perform Partial Stroke Tests (PST) at the push of a button without any additional equipment.
- In upset conditions, units override PST functions to perform an Emergency Shut Down, preventing critical failure.

TOPWORX


EMERSON

CONSIDER IT SOLVED™

Ensure System Integrity and Safety

The TopWorx DX PST switchbox with HART protocol is a reliable, user-friendly solution for performing Partial Stroke Test and Emergency Shut Down for critical applications. Units provide valuable valve data and diagnostic information, relaying feedback to Industrial Internet of Things (IIoT) systems via digital and analog signals. Expanded options for sensor redundancy up to four GO™ Switches and pilot redundancy up to two integrated pilots, all protected within a single enclosure. Thanks to the integrated PST button, operators can test valves without any additional devices, simplifying maintenance.

A User-Friendly Device With Many Benefits

- Remote real-time feedback with HART 7: AMS interface with device status and expanded device variables.
- Local and remote calibration and activation.
- User-selectable alarms via the HART protocol.
- Compatible with multiple distributed control systems and handheld devices.
- Capabilities include solenoid valve testing, Emergency Shut Down (ESD) detection, internal device temperature monitoring, local calibration and more.
- SIL3 capable.
- Single- and dual-solenoid control for integrated pilot valves and external solenoid valves: SOV in 1oo1, 1oo2 or 2oo2 architectures.
- Open terminal options, accommodating an additional pressure transmitter and two pressure switches.

Applications

- Oil and gas refining
- Chemical
- Pharmaceutical
- Mining
- Power generation

The TopWorx DX PST with HART 7	
4–20 mA / HART Terminal Voltage	Minimum: 10 VDC Maximum: 33 VDC
Pilot/SOV 1 and Pilot/SOV 2	Minimum: 22 VDC Maximum: 26.4 VDC 28 W
Analog Position	0 to 100%
Temperature Range	-40° to +80°C -40° to +176°F
Hysteresis	0.5%
Repeatability	0.5%
Linearity	¼ turn, 1% of span
Valve Action	Double, Direct (DA) and Reverse (RA)
Certifications	Intrinsically Safe, Explosion/Flame-proof and General Purpose
Environmental Ratings	IP66/67, UL Type 4/4X
Display Type	Liquid Crystal Display (LDC)

TOPWORX™

For more information:
www.Emerson.com/TopWorx

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