

Universal Positioner SRD960



SRD960 - Intelligent Valve Control with Universal Applications.

- Easy to operate, menu-driven with graphical LCD
- Multilingual full text Display, backlit for easy reading
- All parameters can be configured locally by push buttons
- Status- and diagnostic messages displayed in LCD
- Advanced Diagnostics for Valve predictive maintenance
- Premium Diagnostics for Valve Signatures, On-Line Friction, ...
- Certified for Safety Applications up to SIL 3
- Partial Stroke Test (PST) for emergency shutdown applications
- ATEX and FM approval for EEx d - "flameproof"/"explosionproof"
- HART Protocol with only 360 Ohms load at 20 mA
- PROFIBUS-PA acc. to IEC 1158-2 based on FISCO
- FOUNDATION Fieldbus H1 acc. to IEC 1158-2 based on FISCO with PID, AO, 2xDI, DO function blocks and LAS functionality
- Infrared Interface for wireless communication
- Easy mounting to all linear and rotary actuators
- Options:
 - Limit switches or position transmitter
 - Integrated gauges and volume boosters
 - Pressure sensors for supply air and outputs

HART
COMMUNICATION PROTOCOL

EDD

Fieldbus
FOUNDATION

PROFIBUS

4-20 mA

LA
Intelligent
Automation
Series

FDT

87.5 %
Valve position

Operation

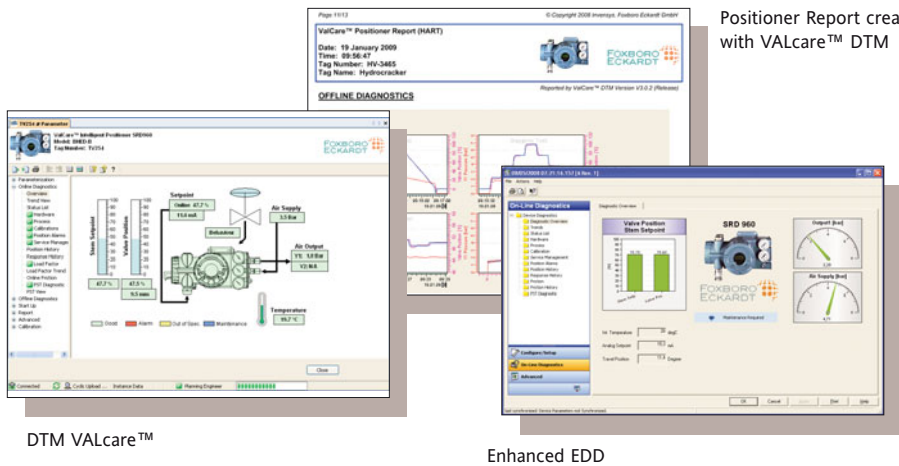
SRD Main Menu
1 Mounting
2 Autostart
3 Valve Action

Configuration

84.6 %
Valve position
Ctrl diff error

Diagnosis report

FOXBORO
ECKARDT



Positioner Report created with VALcare™ DTM



Example for mounting on rotary actuators.

Technical Data

The SRD960 offers the most advanced technology available on the market today.

This includes among others an infrared interface for wireless operation and configuration, a multi-lingual full-text graphic LCD and an availability with the choice of all in the process automation applied communication protocols. It offers enhanced applications and methods to analyze recorded stroke data.

All the diagnostics features can be easily configured and display by the Positioner DTM (VALcare). Moreover, the Positioner DTM enables to edit a complete "health" report of the valve with all data of configuration and diagnostics.

The SRD960 has also the capability to control a Partial Stroke Test (PST) that offers operators a tool to identify the trouble-proof function of ESD (Emergency Shut Down) valves.

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|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advanced Diagnostics | <ul style="list-style-type: none"> • Autostart • Autodiagnostic • Alarm Output for Switching (with Optionboard) • Status List acc. NE107 • Response History | <ul style="list-style-type: none"> • Custom Characterization • Alarm Management • Position History |
| Premium Diagnostics | <ul style="list-style-type: none"> • On Line Friction • Ramping Signature • Valve Signature • PST Predictive Maintenance | <ul style="list-style-type: none"> • Stepping Signature • Sensitivity Signature • PST |
| SRD960 with Communication | HART | Setpoint 4-20 mA Load 420 Ohms |
| | | PROFIBUS PA and FOUNDATION Fieldbus H1 Base current 10.5 mA ± 0.5 mA + FISCO FDE (Fault Disconnection Electronic) |
| | | FoxCom Digital certified DTMs for HART, Profibus PA and FF H1 |
| Display | | Multilingual Graphical LCD with full text display LEDs |
| Air Supply | | 1.4 to 6 bar (20 to 90 psig), or 1.4 to 7 bar (20 to 105 psig) with "spool valve" |
| Stroke Range | | 8 to 260 mm (0.3 to 10.2 in) |
| Angle of Rotation | | up to 95 degree angle, optional up to 300 degree |
| Protection Class | | IP 66 or NEMA 4X |
| Electrical Classification | ATEX | II 2 G EEx d T4 / T6 (flameproof) |
| | FM | Cl. I, Div. 1, Groups A, B, C, D (explosionproof) |
| Electrical Connection | | M20 x 1.5 or 1/2-14 NPT (others with Adapter AD...) |
| Pneumatic Connection | | G1/4 or 1/4-18 NPT |
| Ambient Temperature | | -40 to +80 °C (-40 to +176 °F) |
| Weight | | 2.7 kg / 3.7 lbs (double acting: 3 kg / 4.4 lbs) |
| Optional Features | | Inductive Limit Switches (2- or 3-wire) Mechanical Switches (Micro Switches) Position Transmitter (4 to 20 mA) Binary Inputs or Binary Outputs or Binary Inputs/Outputs dedicated to SIS logic solvers* External potentiometer (*e.g. TRICONEX) |
| Attachment to linear actuators | | acc. to IEC 534 part 6 (NAMUR) and VDI/VDE 3847 |
| rotary actuators | | acc. to VDI/VDE 3845 and VDI/VDE 3847 |
| any other linear or rotary actuator by means of extensive attachment kit offering | | |