

### DESCRIPTION

The SRD991 Intelligent Valve Positioner offers the most advanced technology available on the market today.

The technology 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 displayed by the Positioner DTM (VALcare). Moreover, the Positioner DTM enables editing a complete health report of the valve with all data of configuration and diagnostics.

The SRD991 also has the capability to control a Partial Stroke Test (PST) that offers operators a tool to identify the trouble-free function of ESD (Emergency Shut Down) valves.

### FEATURES

- 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, online friction
- Suitable for safety applications up to SIL 3
- Partial stroke test (PST) for emergency shutdown applications
- HART Protocol with only 420 Ohms load
- 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

- Stainless steel housing
- Limit switches or position transmitter
- Gauge manifolds and volume boosters
- Pressure sensors for supply air and outputs



### Operation



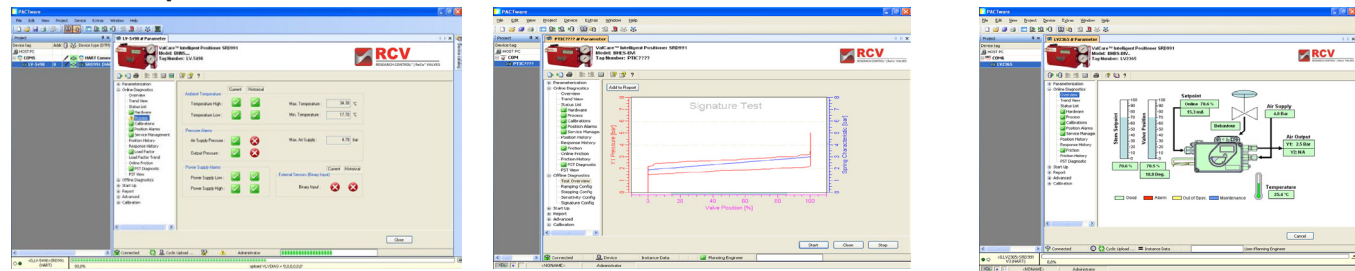
### Configuration



### Diagnosis Report



**Positioner Report**



**SPECIFICATIONS**

<b>Advanced Diagnostics</b>	Autostart	Custom characterization
	Autodiagnostic	Alarm management
	Alarm output for switching (with optionboard)	
	Status List acc. NE107	Position history
	Response history	
<b>Premium Diagnostics</b>	Online friction	Stepping signature
	Ramping signature	Sensitivity signature
	Valve signature	PST
	PST predictive maintenance	
<b>SRD991 without Communication</b>		Setpoint: 4...20 mA Load: 300 Ohms
<b>SRD991 with Communication:</b>	<b>HART</b>	Setpoint: 4...20 mA Load: 420 Ohms
	<b>PROFIBUS PA and FOUNDATION Fieldbus H1</b>	Base current 10.5 mA ± 0.5 mA + FISCO FDE (Fault Disconnection Electronic)
	<b>FoxCom</b>	Digital
<b>Display</b>	Certified DTMs for HART, Profibus PA and FF H1	
<b>Air Supply</b>	<ul style="list-style-type: none"> <li>Multilingual Graphical LCD with full text display</li> <li>LEDs</li> <li>1.4...6 bar (20...90 psig), or</li> <li>1.4...7 bar (20...105 psig) high air capacity version</li> </ul>	
<b>Range</b>	8...260 mm (0.3...10.2 in.) with standard lever	
<b>Angle of Rotation</b>	Up to 95 degree angle, optional up to 300 degree angle	
<b>Protection Class</b>	IP 65 (IP 66 on request), NEMA 4X	
<b>Electrical Classification</b>	<b>ATEX</b>	"Intrinsic safety" II 2 G EEx ia IIC T4 / T6
	<b>FM</b>	"Intrinsic safety for dust" II 1 D Ex iaD 20
<b>Electrical Connection</b>	M20 x 1.5 or 1/2-14 NPT (others, with Adapter AD)	
<b>Pneumatic Connection</b>	G1/4 or 1/4-18 NPT	
<b>Ambient Temperature</b>	- 40...80° C (- 40...176° F)	
<b>Weight</b>	1.7 kg (3.7 lb); Double acting: 2 kg (4.4 lb)	
<b>Optional Features</b>	<ul style="list-style-type: none"> <li>Inductive limit switches (2- or 3-wire)</li> <li>Mechanical switches (micro switches)</li> <li>Position transmitter (4...20 mA)</li> <li>Binary inputs or binary outputs or</li> <li>Binary inputs/outputs dedicated to SIS logic solvers (like TRICONEX)</li> <li>External potentiometer</li> </ul>	
<b>Attachment to:</b>	<b>Linear actuators</b>	acc. to IEC 534 part 6 (NAMUR) and VDI/VDE 3847
	<b>Rotary actuators</b>	acc. to VDI/VDE 3845 and VDI/VDE 3847
	<b>Any other linear or rotary actuator by means of extensive attachment kit offering</b>	

**Control. Manage. Optimize.**

RESEARCH CONTROL is a registered trademark of Badger Meter, Inc. Other trademarks appearing in this document are the property of their respective entities. Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding contractual obligation exists. © 2015 Badger Meter, Inc. All rights reserved.

**www.badgermeter.com**

The Americas | Badger Meter | 4545 West Brown Deer Rd | PO Box 245036 | Milwaukee, WI 53224-9536 | 800-876-3837 | 414-355-0400  
 México | Badger Meter de las Americas, S.A. de C.V. | Pedro Luis Ogazón N°32 | Esq. Angelina N°24 | Colonia Guadalupe Inn | CP 01050 | México, DF | México | +52-55-5662-0882  
 Europe, Middle East and Africa | Badger Meter Europa GmbH | Nurtinger Str 76 | 72639 Neuffen | Germany | +49-7025-9208-0  
 Europe, Middle East Branch Office | Badger Meter Europe | PO Box 341442 | Dubai Silicon Oasis, Head Quarter Building, Wing C, Office #C209 | Dubai / UAE | +971-4-371 2503  
 Czech Republic | Badger Meter Czech Republic s.r.o. | Mařikova 2082/26 | 621 00 Brno, Czech Republic | +420-5-41420411  
 Slovakia | Badger Meter Slovakia s.r.o. | Racianska 109/B | 831 02 Bratislava, Slovakia | +421-2-44 63 83 01  
 Asia Pacific | Badger Meter | 80 Marine Parade Rd | 21-06 Parkway Parade | Singapore 449269 | +65-63464836  
 China | Badger Meter | 7-1202 | 99 Hangzhong Road | Minhang District | Shanghai | China 201101 | +86-21-5763 5412