

LIFE SCIENCES

## **Product Information - SX**

# "SX" Level Transmitter

#### Introduction

This line of sensors provide superior signal stability. The field tested performance of the "SX" transmitter means the elimination of expensive, repetitive re-calibrations along with protection against costly overflow/run-dry situations that can occur with less stable level transmitters. The 0.2% accuracy experienced at installation can now be expected a year later!

We've also incorporated a new field calibration feature that provides "one-touch" sensor zeroing as well as simple range calibration, without the need for special tools and fixtures, pressure sources, or removal of the transmitter from the tank. This translates to real cost savings during installation or when adjusting for new application requirements.

Of course the "SX" Transmitter is available in all standard fitting and range combinations you'll need to fit any sanitary tank application. All variations are CE compliant, meet Intrinsically Safe requirements, 3-A Sanitary Standards, and are backed by a 2-year warranty.

Complete specifications and ordering information are available on the reverse. For more information please visit our Web Site at www.anderson-negele.com, or contact your local Authorized Anderson-Negele Distributor.



"Driftless" transmitters mean:

- · Fewer tune-ups
- · No more overflows
- · More reliable inventories

Special Features Include:

- Quick Disconnect Receptacles with optional Field Wiring Connectors
- · One-Touch Field Calibration



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### Specifications

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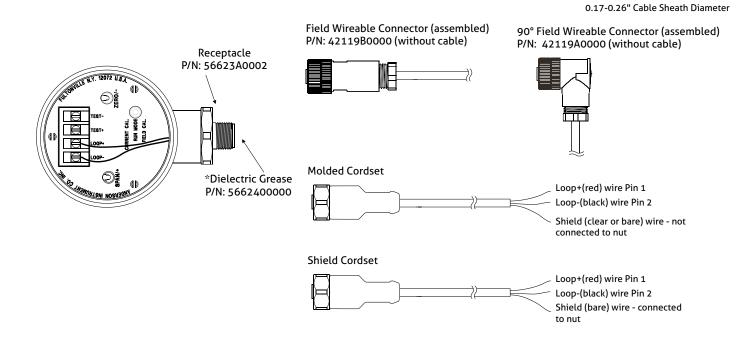
Level Measu	rement Ra	nges:					
		(Facto	ory calibrated at no	charge and easily			
	field calibrated within the parameters listed						
below)							
	Minimum	า	Maximum (URL*)	Proof Pressure			
SX5 Series	s 0-30 "w.c.**		0-140	10 psig			
	• • •		0-415	30 psig			
			0-830 " w.c.	60 psig			
	-		0-1385 " w.c.	100 psig			
Ranges to accomodate vacuum available on request							
line		(inclu	includes repeatability, hysteresis, and				
		linearity)					
		± 0.20% of URL at stable calibration					
		temperature					
		•	±0.075% of URL				
repeatability.		10.07 J /0 01 0 KL					

Repeatability:	±0.075% of URL			
Hysteresis:	±0.075% of URL			
Linearity (BFSL):***	±0.05% of URL			
Calibration Stability:	Within ±0.2% of URL for one (1) year minimum			
Resolution:	Infinite			
Process Temperature Limits: -18°C to 130°C (0°F to 265°F)****				
Ambient Temperature Limits: -9°C to 49°C (15°F to 120°F)				
Compensated Temp. Range: -18°C to 121°C (0°F to 250°F)				
(process)				
Temperature Stability:	±0.2% of Upper Range Limit			
	(URL) per 5.5°C (10°F)			
Over-Range Capacity:	2 times the URL (see table above)			
Response Time:	526 mSec			
Power Signal				
Loop Power (excitation): 12-40 vdc				
Output:	4-20mA dc, 2-wire. Internal test points supplied			

Loop Resistance:	1550 ohms (max.) at 40 vdc,
	750 ohms (max) at 24 vdc
Cable Recommended:	2 conductor, stranded, 18-24 AWG, shielded with ground
	0.17 - 0.26" Cable Sheath OD for use
	with field wiring connector.
	Anderson molded cord set recommended for
	best EMI and water protection.
Receptacle:	5-pin M12 Quick Disconnect
	Receptacle
MATERIALS/CONSTRU	CTION
Housing Material:	304 and 316 stainless steel finished to
	32Ra max.
Wetted Parts:	316L stainless steel electropolished to
	8Ra max.
Gasket:	Anderson Flush Gasket USP VI
Ratings:	NEMA 4X, IP66, IP67
AGENCY APPROVALS	
Hazardous Locations:	Intrinsically safe for use in Class 1,
	Div. 1, Groups A-D
	oatibility (EMC): CE Compliant
Standards:	3-A compliant; Third party verified
	Designed and manufactured to sound
	engineering practices in accordance with Article 3.3 of the PED 97/23/EC.
	CSA B51-03
Warranty:	All units are convered by a two (2) year
-	warranty against defects in material and
	workmanship when installed and
	maintained according to the instruction
	manual provided.
	* URL = Upper Range Limit
	** w.c. = water column
	*** BFSL = Best Fit Straight Line**** -18 °C to 121 °C (0 °F to 250 °F) for fitting options 088, 089, 090, and 091.

°F to 250 °F) for fitting options 088, 089, 090, and 091.

# **Electrical Connections and Wiring Options**



Order Information

#### SX CALIBRATION SPAN RANGE -Height in inches w.c.<sup>2</sup> ##### 0-30" min to 0-140" max 5 (to nearest tenth) 6 0-140.1" to 0-415" max 00000 **Field Calibrated** 0-415.1" to 0-830" max 7 8 0-830.1" to 0-1385" max Examples: FITTING -10850 1,085.0 inches 089 Anderson Flush Mount Long - with USP VI gasket 00305 30.5 inches (71060-A3, A5, A7, A9) 088 Anderson Flush Mount Short - with USP VI gasket (71060-A4, A6, A8) 091 Cherry Burrell Flush Mount Long SENSOR WIRING (insulated tank) 00 Quick Disconnect Receptacle 090 Cherry Burrell Flush Mount Short (ODR) w/No Cable (uninsulated tank) RO QDR & 90° FWC w/No Cable 092 King Gage Flush Mount Long QDR & Field Wireable Connector 01 (1777-3) (FWC) w/No Cable 093 King Gage Flush Mount Medium QDR w/25 ft Standard Molded Cordset 05 (1777-1, -6 Standard) QDR w/25 ft Standard Molded Cordset 10 094 King Gage Flush Mount Short QDR w/25 ft Standard Molded Cordset 20 (1777-2 non-insulated) 097 Tank Mate Flush Mount Long 1 99 1/2" NPTNo ODR, no FWC and no Cable (208WVE) (No sensor warranty for water damage) 096 Tank Mate Flush Mount Medium <sup>1</sup> (205WVE) 095 Tank Mate Flush Mount Short 1 (200WVE) 004 1-1/2" Tri-Clamp® 005 2" Tri-Clamp® 007 3" Tri-Clamp® MOUNTING 059 1-1/2" NPT 3 0 Horizontal 141 Rosemount / Foxboro Sanitary Spud - Short Vertical 1 142 Rosemount / Foxboro Sanitary Spud - Long 2 Other (specify angle from 154 Endress & Hauser Universal Adaptor - short vertical or from hoizontal) 155 Endress & Hauser Universal Adaptor - long ACCESSORIES Anderson Weld-In Shells for Flush Mount Level Transmitters 71060A0003 Insulated Vessel - Standard Flange - 316L 71060A0004 Uninsulated Vessel - Standard Flange - 316L 71060A0005 Insulated Vessel - Pressure Vessel Flange - 316L 71060A0006 Uninsulated Vessel - Pressure Vessel Flange - 316L DIAPHRAGM SS-316L Electropolished 1 2 Hastelloy "C" (N/A with King-Gage, Tank Mate, 71060A0009 Insulated Vessel - H/D Press. Vessel Flange - 316L or Endress & Hauser Fittings) Shell Adaptor Tank Mate, uninsulated 57200A0002 Tank Mate, insulated 57200A0001 Gaskets for Flush Mount Level Transmitters Anderson USP VI 44348A0002 **Requires Adapter:** 44348A0002 57200A0001 (insulated) Cherry Burrell King Gage Tank Mate 44292A0001 57200A0002 (uninsulated) 36240S3212 36240S3123 2 Note: 5658900000 Continental Calibration of span is in units "inches water column". Rosemount/Foxboro 36240E3341 Consult factory for assistance. Sensor Calibration Adaptors Anderson fitting Cherry Burrell fitting 73198A0001 <sup>3</sup> Not 3-A compliant 73198A0002 King Gage Fitting 73198A0003 Tankmate 73198A0004 Cord Sets Molded w/25' cable Molded w/50' cable 42117K0025 42117K0050 Molded w/100' cable 42117K0100

5-Conductor w/25' cable 5-Conductor w/50' cable

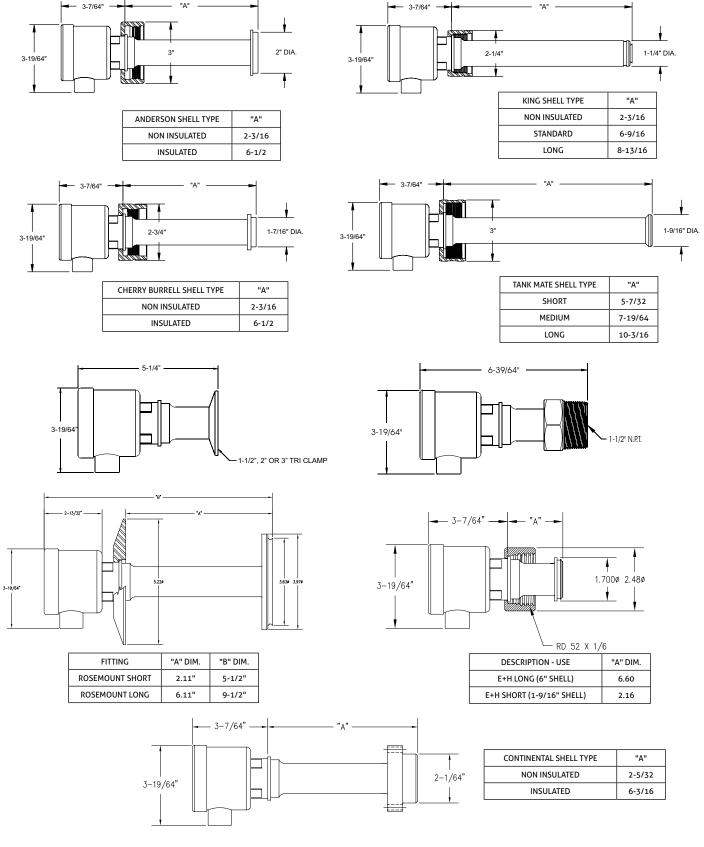
5-Conductor w/100' cable

42117H0025 42117H0050

42117H0100

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### **Sensor Fittings and Dimensions**



05006P / 2.2 / 2022-8-19 / NV / NA

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