Product Information - SX

LIFE SCIENCES

"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.

Features

- "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



Specifications LIFE SCIENCES

Specifications

PERFORMANCE

SX8 Series

Level Measurement Ranges:

(Factory calibrated at no charge and easily field calibrated within the parameters listed

below)

Maximum (URL*) Proof Pressure Minimum 0-30 " w.c.** SX5 Series 0-140 " w.c. 10 psig 0-140.1 " w.c. 0-415 " w.c. SX6 Series 30 psig 0-415.1 " w.c. 0-830 " w.c. SX7 Series 60 psig

100 psig Ranges to accomodate vacuum available on request

Calibrated Accuracy: (includes repeatability, hysteresis, and

linearity)

0-830.1 " w.c. 0-1385 " w.c.

± 0.20% of URL at stable calibration

temperature

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

2

best EMI and water protection.

Receptacle: 5-pin M12 Quick Disconnect

Receptacle

MATERIALS/CONSTRUCTION

Housing Material: 304 and 316 stainless steel finished to

32Ra max.

Wetted Parts: 316L stainless steel electropolished to

8Ra max.

Anderson Flush Gasket USP VI Gasket:

NEMA 4X, IP66, IP67 Ratings:

AGENCY APPROVALS

Hazardous Locations: Intrinsically safe for use in Class 1,

Div. 1, Groups A-D

Electromagnetic Compatibility (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

CRN# CSA0F9754.5C

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

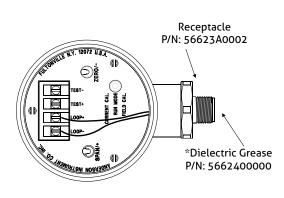
90° Field Wireable Connector (assembled)

manual provided.

* URL = Upper Range Limit w.c. = water column *** BFSL = Best Fit Straight Line

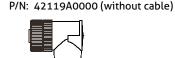
Electrical Connections and Wiring Options

0.17-0.26" Cable Sheath Diameter



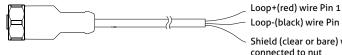
Field Wireable Connector (assembled) P/N: 42119B0000 (without cable)







Molded Cordset



Loop-(black) wire Pin 2

Shield (clear or bare) wire - not connected to nut

Shield Cordset



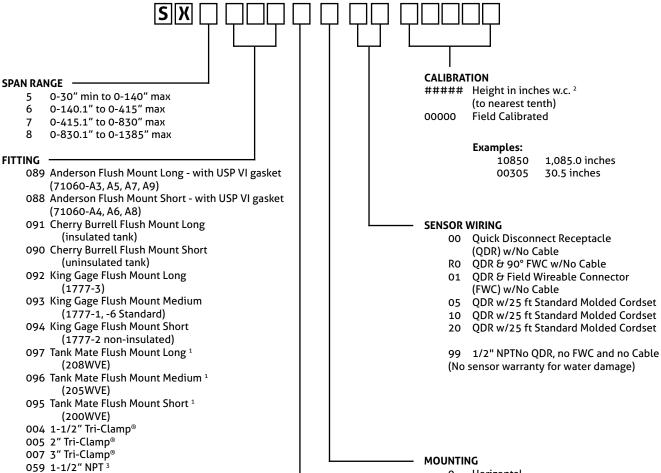
Loop+(red) wire Pin 1 Loop-(black) wire Pin 2

Shield (bare) wire - connected to nut

Order Information LIFE SCIENCES

Order Information

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DIAPHRAGM -

- SS-316L Electropolished
- 2 Hastelloy "C" (N/A with King-Gage, Tank Mate, or Endress & Hauser Fittings)

141 Rosemount / Foxboro Sanitary Spud - Short

142 Rosemount / Foxboro Sanitary Spud - Long

154 Endress & Hauser Universal Adaptor - short

155 Endress & Hauser Universal Adaptor - long

- Requires Adapter: 57200A0001 (insulated) 57200A0002 (uninsulated)
- Calibration of span is in units "inches water column". Consult factory for assistance.
- 3 Not 3-A compliant

- O Horizontal
- Vertical 1
- 2 Other (specify angle from vertical or from hoizontal)

ACCESSORIES

Anderson Weld-In Shells for Flush Mount Level Transmitters 71060A0003 Insulated Vessel - Standard Flange - 316L 71060A0004 Uninsulated Vessel - Standard Flange - 316L Insulated Vessel - Pressure Vessel Flange - 316L Uninsulated Vessel - Pressure Vessel Flange - 316L 71060A0005 71060A0006 71060A0009 Insulated Vessel - H/D Press. Vessel Flange - 316L

Shell Adaptor Tank Mate, uninsulated 57200A0002 Tank Mate, insulated 57200A0001

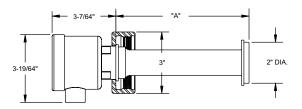
Gaskets for Flush Mount Level Transmitters		
Anderson USP VI	44348A0003	
Cherry Burrell	44292A0001	
King Gage	36240S3212	
Tank Mate	36240S3123	
Continental	5658900000	
Rosemount/Foxboro	36240E3341	
Sensor Calibration Adaptors		
Anderson fitting	73198A0001	

Cherry Burrell fitting 73198A0002 King Gage Fitting 73198A0003 Tankmate 73198A0004

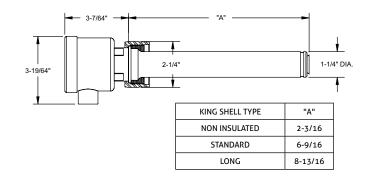
Cord Sets

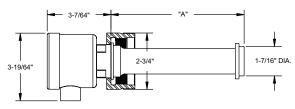
Molded w/25' cable Molded w/50' cable 42117K0025 42117K0050 Molded w/100' cable 42117K0100 5-Conductor w/25' cable 5-Conductor w/50' cable 42117H0025 42117H0050 5-Conductor w/100' cable 42117H0100

Sensor Fittings and Dimensions

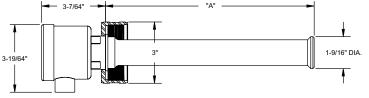


ANDERSON SHELL TYPE	"A"
NON INSULATED	2-3/16
INSULATED	6-1/2

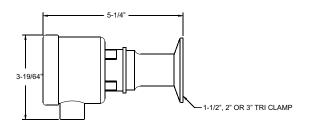


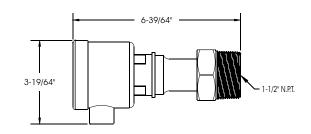


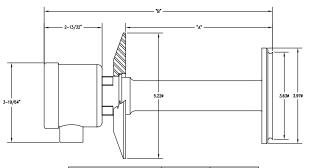
CHERRY BURRELL SHELL TYPE	"A"
NON INSULATED	2-3/16
INSULATED	6-1/2



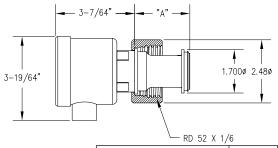
TANK MATE SHELL TYPE	"A"
SHORT	5-7/32
MEDIUM	7-19/64
LONG	10-3/16



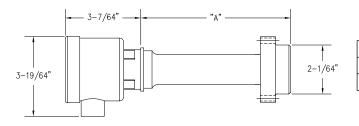




FITTING	"A" DIM.	"B" DIM.
ROSEMOUNT SHORT	2.11"	5-1/2"
ROSEMOUNT LONG	6.11"	9-1/2"



DESCRIPTION - USE	"A" DIM.
E+H LONG (6" SHELL)	6.60
E+H SHORT (1-9/16" SHELL)	2.16



CONTINENTAL SHELL TYPE	"A"
NON INSULATED	2-5/32
INSULATED	6-3/16

05006P/2.0/2015-03-20/PW/NA