

FLOW
LEVEL
PRESSURE
ANALYTICAL
TEMPERATURE
INSTRUMENTATION
PASTEURIZATION CONTROLS

"SL" Level Transmitter

New technology proven to eliminate long-term signal drift — provides substantial savings in all inventory applications!

- Fewer tune-ups
- No more overflows
- More reliable inventories
- 3-A compliant; Third party verified

Special Features Include:

- Quick Disconnect Receptacles with optional Field Wiring Connectors
- One-Touch Field Calibration
- Available with Hart Communication

Anderson Instrument Company's "SL" Level Transmitter is the latest innovation for measuring liquid level in sanitary applications. The "SL" Transmitter incorporates state of the art design to provide superior accuracy and long term signal stability. The field tested performance of the "SL" transmitter means the elimination of expensive, repetitive re-calibrations along with protection against costly overflow/run-dry situations

stable level transmitters. The 0.2%accuracy experienced at installation can now be expected a year later!

We've also incorporated a 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. With the addition of our standard quick disconnect receptacles; we have even extended our two-year warranty to cover water ingression.

Of course the "SL" 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 applicable 3-A Sanitary Standards, and are backed by a 2-year warranty.

APPLICATIONS

- Inventory Control
- Batching/Mixing Control
- Both Conductive and Non Conductive Fluids



SL Specifications

Performance

Level Measurement Ranges: (Factory calibrated at no charge and easily field calibrated within the parameters listed below)

	<u>Minimum</u>	Maximum (URL*)	Proof Pressure
SL1 & SL5 Series	0-30 " w.c.**	0-140 " w.c.	10 psig
SL2 & SL6 Series	0-140.1 " w.c.	0-415 " w.c.	30 psig
SL3 & SL7 Series	0-415.1 " w.c.	0-830 " w.c.	60 psig
SL4 & SL8 Series	0-830.1 " w.c.	0-1385 " w.c.	100 psig
Ranges to accomodate vacuum available on request			

Calibrated Accuracy: (includes repeatability, hysteresis, and linearity)

± 0.20% of URL at stable calibration

temperature

Calibration Stability: Within ±0.2% of URL for one (1) year

minimum

Resolution: Infinite

Process Temperature Limits: 0°F to 265°F (-18°C to 130°C) 15°F to 120°F (-9°C to 49°C) Ambient Temperature Limits: Compensated Temp. Range: 0°F to 250°F (-18°C to 121°C)

(process)

Temperature Stability: ±0.2% of Upper Range Limit (URL) per 10°F (5.5°C)

Over-Range Capacity: 2 times the URL (see table above)

Response Time: 526 mSec

Communication

Standard: Analog, 4-20mA output Optional: Analog + Hart digital protocol. Does not support Multidrop mode **Power Signal**

Loop Power (excitation): 12-40 vdc

Output: 4-20mA dc, 2-wire. Internal test points

supplied

1550 ohms (max.) at 40 vdc, Loop Resistance:

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.

5-pin M12 Quick Disconnect Receptacle:

Receptacle

Materials/Construction

Housing Material: 304 and 316 stainless steel finished to

32R_a max

Wetted Parts: 316L stainless steel electropolished to

15R_a max

NEMA 4X, IP-66, IP-67 Ratings:

Agency Approvals

Electromagnetic Compatibility

(EMC):

Fully CE Compliant when equipped

with shielded molded cord set

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

Warranty: All units are covered by a two (2) year

warranty against defects in material and workmanship when installed and maintained according to the instruction

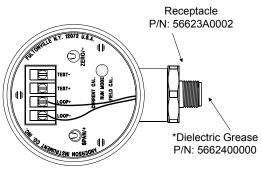
manual provided

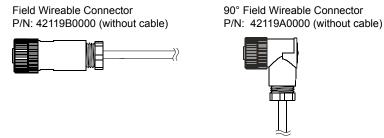
URL = Upper Range Limit

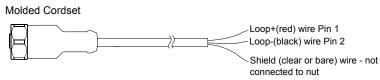
w.c. = water column

Electrical Connections and Wiring Options

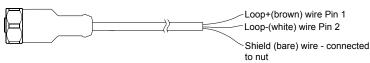
0.17-0.26" Cable Sheath Diameter



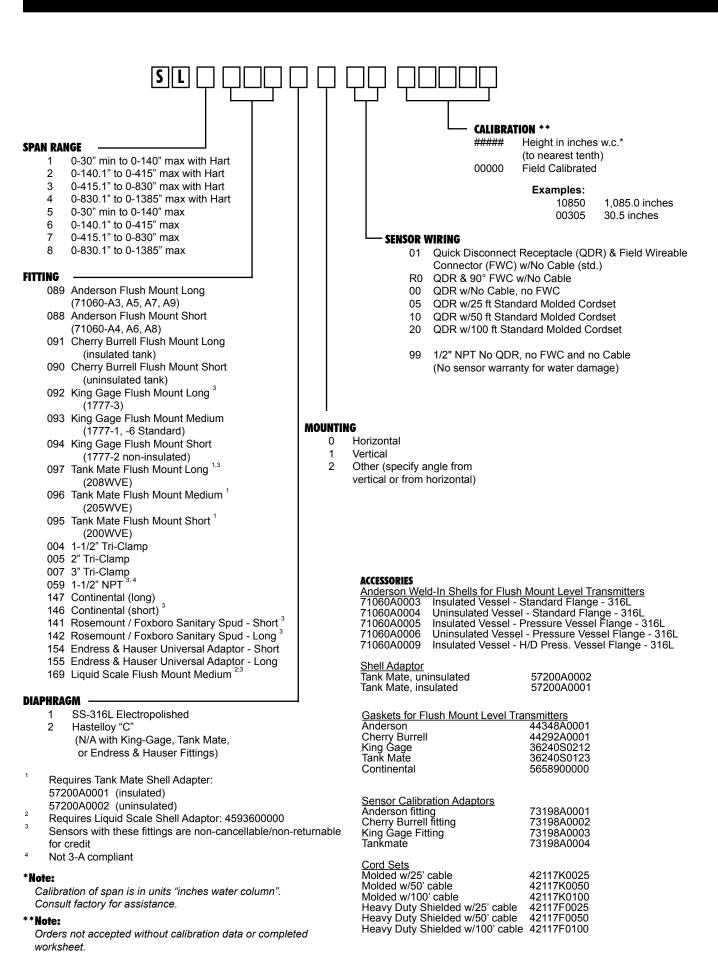




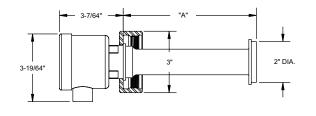
Heavy Duty Connected Shield Cordset



How to Order



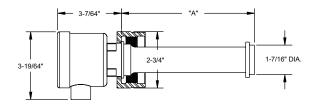
Sensor Fittings and Dimensions





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

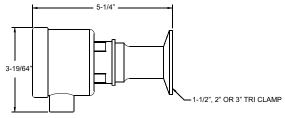
KING SHELL TYPE	"A"
NON INSULATED	2-3/16
STANDARD	6-9/16
LONG	8-13/16

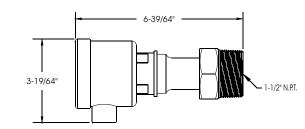


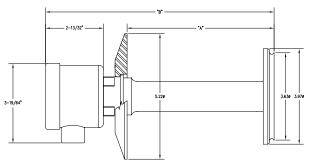
3-7	7/64"	"A"	-
T			
3-19/64"	3"		1-9/16" DIA.
			Ψ

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



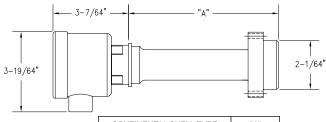




+	3-7/64" —— "A" ——
3–19/64"	1.700¢ 2.48¢
	RD 52 X 1/6

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

FORM AIC5006 © April 1999 Revised: November 2012 Supersedes: January 2012