

*Instrumentation designed  
with the user in mind.*

## ULTRASONIC LEVEL TRANSMITTER

for  
**SANITARY LIQUIDS**

**Biotech**

**Breweries**

**Dairies**

**Food Processing**

**Pharmaceuticals**



### **ADVANTAGES**

- Two-Wire Loop Powered Operation
- Narrow Beam Angle ( $\pm 2.5^\circ$  from center axis)
- Open channel flow characterization
- Vessel volume conversion
- 32-point linearization
- Full temperature compensation
- Fixed target suppression
- Simple push-button programming
- Operating modes:

**Basic:** Simple start up and 4/20 mA programming without Display Module option.

**Sophisticated:** Using the Display Module which includes a 6 digit custom LCD display, the operator can choose between a menu driven QUICKSET and full parameter programming.

### **Narrow Beam Technology**

*Sanitary all Teflon Tri-clamp Mounting  
Non-contact Level Transmitter*



The **SmartSonic™ L4660-SEF-38S-2** is a **Sanitary Two-Wire SMART** ultrasonic level transmitter that incorporate Princo's unique narrow beam technology.

*The **Sanitary SmartSonic™** transmitter includes field proven innovative advanced, process adaptive signal processing software to identify and validate the surface signal.*

***Princo's SmartSonic™** utilizing innovative patented technology, is the best ultrasonic level measurement system on the market today.*

*The only*

# **10 Year Warranty**

*The longest in the industry!*

# Specifications

## Sanitary 2-wire SmartSonic L4660-SEF-38S-2

Transducer materials  
Teflon (PTFE)

Housing material  
Plastic: PBT fibreglass reinforced

Mounting  
2-1/2" Tri-clamp  
All exposed surfaces ~ Teflon (PTFE)

Process temperature  
-22 °F ... +194 °F

Ambient temperature  
-22 °F ... +158 °F  
with SAP-200 -13 °F ... +140 °F

Pressure (Absolute)  
0.5\*\* ... 3 bar (0.05 ... 0.3 MPa)

Enclosure:     Sensor ~ NEMA 6;  
                  Housing ~ NEMA 4X

Power supply  
12 ...36 VDC / 48 mW ...720 mW  
electrically isolated; transient & surge protected

Accuracy \*     ± 0.2% of the measured distance  
                  plus 0.05% of the range

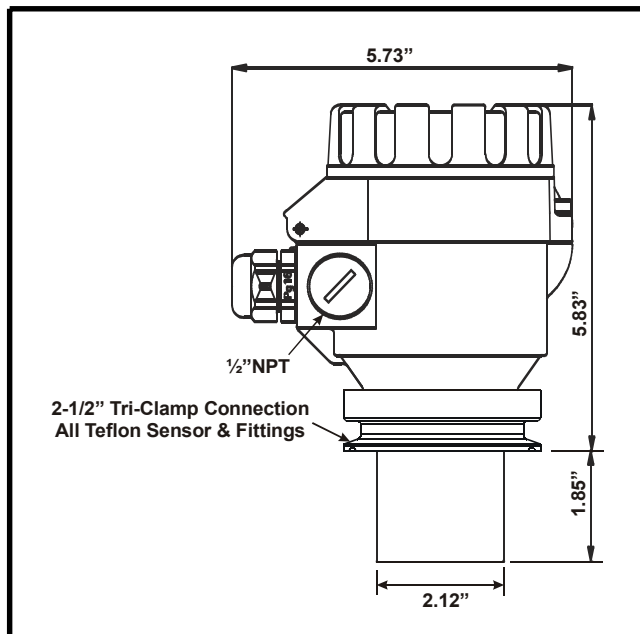
Resolution (Dependent upon measured distance)  
< 80 inches:    0.04 inches  
80...198 inches: 0.08 inches  
16.4... 20 feet: 0.2 inches

Dead Band - 10"  
Analog: 4 ...20 mA

Loop power test connectors:  
ammeter plug-in, 200 mV, 0.5%

Display: 6 digits, icons and bargraph  
(SAP-200 display module only)

\* Under optimal reflection conditions and stabilized transducer temperature.  
\*\* At pressures under 1 bar absolute, consult Princo.



### 10-YEAR WARRANTY

All PRINCO level control instruments are backed by a 10-year warranty. PRINCO will repair or replace, at our option, any instrument that fails under normal use for up to 10 years after purchase.



**PRINCO**

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Rev 2/13/08