

Instrumentation designed
with the user in mind.

Narrow Beam Technology

ULTRASONIC LEVEL TRANSMITTERS

for
LIQUIDS

- ◆ Breweries
- ◆ Chemicals
- ◆ Food Processing
- ◆ Pharmaceuticals
- ◆ Power Plants
- ◆ Pulp & Paper
- ◆ Water & Wastewater



ADVANTAGES

- Simple push-button programming
- 4 to 20ma PLUS programmable relay outputs
- 32-point linearization
- 2 x Fixed target suppression
- Built-in temperature sensor provides:
 - full range compensation
 - process temperature indication
- Several operating modes:

Basic: Simple start up and 4/20 mA programming using a supplied magnet

Sophisticated: Using the plug-in programming module which includes a 5 digit custom LCD display, the operator can choose between a menu driven QUICKSET, full parameter programming or a simple calibration of the analog output.

Digital: For remote information transfer and programming: HART is an available option.

SmartSonic™ is Princo's new line of **SMART** level transmitters incorporating the unique narrow beam technology, combined with HART communication protocol.

SmartSonic™ compact transmitters include field proven innovative advanced, process adaptive signal processing software to identify and validate the surface signal.

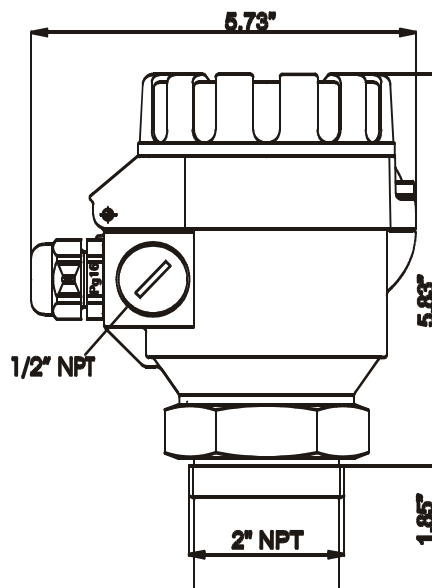
Princo's SmartSonic™ utilizing innovative patented technology, is the best ultrasonic level measurement system on the market today.

10 Year Warranty

Series L4660 Specifications

GENERAL L4660 SPECS

| | |
|----------------------------|--|
| Product name | SmartSonic L4660 series |
| Product description | Compact SMART narrow beam ultrasonic level transmitter |
| Transducer materials | Polypropylene (PP) Kynar (PVDF), Teflon (PTFE) or Stainless Steel (316Ti) (optional) |
| Housing material | Plastic: PBT fiber-glass reinforced, Aluminum: Powder paint coated (optional) |
| Process temperature | PP, PVDF versions: -22°F - 194°F PTFE and Stainless Steel versions: -22°F - 212°F (CIP 248°F for max. 2 hours) |
| Ambient temperature | -22°F - 140°F |
| Pressure (Absolute.) | 4.41 PSIG – 44 PSIG (0.3 to 3 bar) (0.03 to 0.3MPa) |
| Seals | PP version: EPDM; All other versions: FKM (Viton) |
| Mechanical protection | Sensor: NEMA 4, 4X & 6 Housing: NEMA 4, 4X & 6 |
| Power supply / Consumption | AC version: 85 to 255 VAC / 6 VA DC version: 10.5 to 40 VDC / 3.6 W |
| Accuracy | ±0.2% of target distance ±0.05% of range* |
| Resolution | <6.5': 0.039", 6.5 – 16.5': 0.079", 16.5 – 33': 0.197", >33': 0.394" |
| Outputs | Analog: 4 -20 mA DC, Relay: SPDT relay, 250 VAC, 3A; HART (optional) |






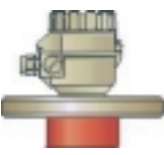


MODEL SSB/SST-38 DIMENSIONS

PROGRAMMING MODULE

| | |
|---------------------|--|
| Local Display | Custom LCD 6 digits plus icons and bar graph |
| Ambient temperature | -13-140°F |
| Housing material | PBT glass-glass reinforced plastic |

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.

| Model L4660 SmartSonic™ Narrow Beam Ultrasonic |  |  |  |  |  |  |
|---|---|---|---|--|---|---|
| Type | SB/ST - 39 | SB/ST - 38 | SB/ST - 37 | SB/ST - 36 | SB/ST - 34 | SB/ST - 32 |
| Range | 13 ft (4 m) | 20 ft (6 m) | 26 ft (8 m) | 33 ft (10 m) | 50 ft (15 m) | 82 ft (25 m) |
| Dead band | 8" (0.2 m) | 10" (0.25 m) | 14" (0.35 m) | 14" (0.35 m) | 16" (0.4 m) | 2 ft (0.6 m) |
| Total beam angle | 6° | 5° | 5° | 6° | 5° | 6° |
| Process connection | 1 1/2" thread | 2" thread | 2" thread | Flange | Flange | Flange |
| Ingress protection | Sensor: NEMA 4X & 6, Housing: NEMA 4 | | | | | |
| Materials | Sensor: PP, PE, PVDF, PTFE or 316 SS Ti Housing: Plastic or Powder paint coated die-cast Aluminium | | | | | |
| Process temperature | -22°F to 194°F (-30°C to +90°C) (flush flange mounting St. st. sensors are suited for CIP) | | | | | |
| Supply | 4 - wire versions: 80 to 255 V AC or 24 V AC/DC | | | | | |
| Outputs | 4/20 mA, Rs485, HART, Relay (SPDT) | | | | | |

PRINCO

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