The Level Plus LLH satisfies the demand for an accurate and robust liquid level transmitter for sanitary/hygienic applications. The LLH can provide product level and/or interface level in a compact mechanical design. There is no requirement for scheduled maintenance or recalibration for the expected 10 year life of the sensor. Set it and Forget it.

The LLH liquid level transmitter can be mounted on most tanks offering NPT and Tri-Clamp connections from ¾ to 6 inches. The LLH also offers a variety of outputs including Analog, CANbus, SSI, IO-Link, POWERLINK, PROFINET, EtherNet/IP™ and EtherCAT™. Included in the model number is the selection of the float and cable. The single model offers everything needed for level measurement in a variety of sanitary applications.

**FEATURES**

- Sanitary Finish Ra 25 μm (0.64 μm)
- Product and Interface Level
- No scheduled maintenance or recalibration
- Inherent Accuracy ± 0.5 mm
- IP69K
- 100 g Shock/15 g Vibration

**APPLICATIONS**

- Bottle filling machines
- CIP tanks
- Skids
- Balance tanks
- Fermentation tanks
- Dispensing
TECHNICAL DATA

Output Options
- **Voltage**: 0…10 VDC or 10…0 VDC, 0…10 VDC and 10…0 VDC (controller input resistance RL > 5 kΩ)
- **Current**: 4…20 mA or 20…4 mA (minimum/maximum load: 0/500 Ω)
- **SSI (Synchronous Serial Interface)**: Binary or Gray, 24 or 25 bit
- **CANbus**: CANopen: CIA standard DS 301 V3.0/encoder profile DS 406 V3.1, CAN System ISO-11898
- **IO-Link**: V1.1, 32 bit signed, COM3 (230.4 kBaud)
- **EtherCAT®**: 100 Base-Tx, Fast Etherner, 100 MBits/s max
- **POWERLINK**: Ethernet POWERLINK V2
- **EtherNet/IP™**: Encoder CIP device profile with CIP Sync and DLR capabilities, 100 MBits/s max
- **PROFINET**: PROFINET RT, PROFINET IRT version 2.3, Temposonics Profile & Encoder Profile 4.1, 100 MBits/s max
- **Measurement value**: Product Level and/or Interface Level

Measurement parameters
- **Resolution**: 0.1 mm or greater
- **Inherent accuracy**: ± 0.5 mm

Operating conditions
- **Operating temperature**: −40…+75 °C (−40…+167 °F)

Design/Material
- **Sensor electronics housing/flange**: Stainless steel 1.4305 (AISI 303); option: Stainless steel 1.4404 (AISI 316L)
- **Wetted parts**: Stainless steel 1.4404 (AISI 316L) Ra 25 μin. (Ra 0.625um)
- **Order length**: 127 to 2525 mm (5.0 to 99.4 in)
- **Operating pressure**: 5/8” O.D. 69 bar (1000 psi)

TECHNICAL DRAWING

LLH - E-Series

Controlling design dimensions are in millimeters and measurements in ( ) are in inches