

Pressure, Level and Volume Sensor L3 NEW

Range of applications

- Hydraulic level measurement in dynamic temperature environments
- Process measurement in pipes and vessels up to 100 °C (212 °F)
- Hydraulic level, volume and mass measurement in brewing plants

Application examples

- Hydraulic pressure and level monitoring for fermenting, dairy, and food and beverage processing

Hygienic design/Process connection

- Hygienic process connection with G1/4" design
- Conforming to 2.1.4 factory standard for vessels with 2000 T design
- All wetted materials are FDA compliant
- Sensor completely made of stainless steel
- Complete stainless steel process connection, wet table cable
- Mounting the Hygienic unit in clean (200) or the field in stainless steel flow right allowed. Hygienic and easy cleanable measurement probe will be selected.

Features

- IP 68 (NEMA 4X) rating up to 100 °C (212 °F) for 60-minute use
- Pressure head is long, which provides 2000 T degree protection
- Intuitive user interface makes set-up and configuration easy
- Non-adjustable pressure-free output
- Field configurable and reconfigurable through wireless bridge
- State of the art temperature compensation allows temperature resistant pressure, level and volume measurement
- On board interface for HART protocol allows reconfiguration including HART bandwidth and the units
- Optional displaying volume and mass values directly
- Pressure and volume specific tank tables as well as product information available
- Standard HART 15.4 communication and graphical LCD display
- Wide range of measurement ranges

Optional accessories

- Optional remote kit provides a separate unit for the sensor and display
- Optional P.I. wetted contact available

Measuring principle of the pressure sensor

This unit utilizes an internal piezoelectric transducer and an RTD temperature element to measure the pressure and temperature of the internal sensing fluid. The wet output of the transducer and resistance of the RTD are measured and converted to a compensated pressure value by way of the digital algorithm found in the device. This digital algorithm communicates to the field where the signal is converted to industry standard 4...20 mA and HART 15.4 signals. For relative accuracy the back of the display is covered and the output is relative to the atmosphere's conditions.

Authorizations



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IP 68 rating version

