

New benchmark for precision even with turndown and temperature changes Pressure, level and volume transmitter L3

L3 Neo: new standards in accuracy

- Accuracy <0,10% and temperature effect <0,03%/10°C of the calibrated range
- Integrated tank linearization and density compensation
- Simple installation & operation through programming via display, on-site configuration, and Smart Replace Design

With its exceptional performance characteristics, the L3 is particularly suitable for level and volume measurement. This applies specifically for smaller vessels or for high and changing process temperatures for which pressure sensors were previously not considered precise enough.

- High accuracy: Tank linearization with density compensation for precise output of volume or mass (kg, l, %...)
- Compact & modular: Simple, flexible installation due to small size & on-site component replacement
- Flexible: Optional separate version with remote display for optimum installation and easy monitoring even at inaccessible measuring points
- Simple: User-friendly display programming for commissioning, configuration and maintenance

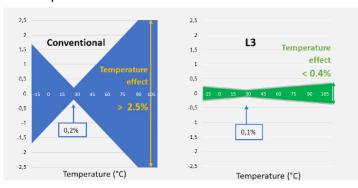
Measurement accuracy:

The accuracy of the L3 **remains at 0.1%** (5:1 turndown) or 0.15% (10:1 turndown).

Temperature effect:

Conventional sensors show a temperature drift of up to 0.4% per 10°C. At 110 °C, the temperature effect is over 2.5%!

The L3 shows a temperature drift of 0.03% per 10°C. At 110°C the temperature effect is below 0.4%!



Customer experience / applications

- Hygienic pressure and level monitoring for processes in breweries, dairies and in the food and beverage industry
- · Storage tank monitoring for CIP/SIP systems





Technical specifications at a glance

- High-precision hydrostatic level measurement in vessels and process pressure measurement in pipes
- Measuring range 0...0.4 | -1...2 | -1...7 | -1...35 bar, with selectable calibration range
- · Range with Turndown 1:10 up to 0...0.04 bar
- Pressure measurement in tanks and pipes up to 110 °C; CIP / SIP cleaning up to 135° for max. 60 min.
- · Protection class IP69K for highest reliability
- Smart Replace Design: easy replacement of all components just by plug and screw connections
- · Now with IO-Link in Flex-Hybrid Technology



Order code of fully assembled sensor L3A Sensor assembled Standard Stem (AISI 316L, $R_a \le 0.64 \,\mu\text{m} / 25 \,\mu\text{in}$) Pharmaceutical Stem (AISI 316L, Ra ≤ 0.2 µm / 8 µin) with 3.1 inspection certificate and calibration certificate URL 5 0...6 psi, 0...0.4 bar, 0...166" w.c. 30 "Hg/0/30 psi, -1...2 bar, -400...830" w.c. 6 30 "Hg/0/100 psi, -1...7 bar, -400...2 770" w.c. 7 30 "Hg/0/500 psi, -1...35 bar, -400...13 850" w.c. 8 3-A compliant fittings Fittings not 3-A compliant 002 Tri-Clamp® 3/4" 160 Flexibel thread G1", Tri-Clamp® 11/2" 004 hygienic CLEANadapt 005 Tri-Clamp® 2" 059 11/2" NPT 006 Tri-Clamp® 21/2" 182 Fixed thread G1", 007 Tri-Clamp® 3" hygienic CLEANadapt 123 CPM Fitting* 109 38 mm SMS Liner (female) Anderson Flush Mount Short (71060-A4, A6, A8) 088 110 51 mm SMS Liner (female) Anderson Flush Mount Long (71060-A3, A5, A7, A9) Dairy flange DIN 11851 DN 40 115 092 King Gage Flush Mount Long (1777-3) Dairy flange DIN 11851 DN 50 124 093 King Gage Flush Mount Medium (1777-1, -6 Standard) 180 M38x1.5 094 King Gage Flush Mount Short (1777-2 non-insulated) 181 DRD flange 65 mm 141 Rosemount/Foxboro Sanitary Spud - short 142 Rosemount/Foxboro Sanitary Spud - long *) Sensor is 3-A compliant when 154 Endress+Hauser Universal Adaptor - short installed in a 3-A compliant 155 Endress+Hauser Universal Adaptor - long instrument tee Capillary fill Mineral oil Neobee® M-20 Sensor type Integral (Compact version) Remote with 1.5 m = 5' cable D Remote with 6.0 m = 20' cable Α В Remote with 3.0 m = 10' cable E Remote with 7.5 m = 25' cable C Remote with 4.5 m = 15' cable F Remote with 15 m = 50' cable Output Analog and IO-Link A G Analog and HART Cap 2 Clear Stainless steel **Enclosure orientation** Vertical Horizontal **Electrical connection** M12 ODR A C Cable gland 1/2" NPTF Adaptor N **Engineering units** psi R bar W inches of water mbar Calibration range 000 Full range of stem URL 999 Custom range XXX see calibration range table 004 1 A 2 000