



Process sensors

Level transmitter with analogue output and IO-Link



Level sensors



Probe lengths of 10...200 cm

The probe can be cut to length, if needed

Compact design for limited space

- Analogue output, up to 4 switching outputs and process value transmission via IO-Link
- User-friendly parameter setting via IO-Link by means of PC or IO-Link master



Robust and reliable

The level transmitter reliably resists harsh environmental conditions or high-pressure cleaning. Its small design allows installation in restricted spaces. The digital IO-Link communication prevents disturbance in measured value transfer.

Successful thanks to modular concept




The probes can be shortened, or changed, so the LR reduces stock-keeping and simplifies replacement.

User-friendly setting

Offline setup of the sensor, by the user, is possible via PC based LR Device – IO Link Sensor parameterisation software. The data record of parameter setting can be copied to other sensors, e.g. for installations of identical design.



Accessories



| Design | Description | Order no. |
|--|-------------|-----------|
| Probes, stainless steel (316L / 1.4404) | | |
|  | 150 mm | E43225 |
| | 210 mm | E43351 |
| | 240 mm | E43203 |
| | 265 mm | E43352 |
| | 300 mm | E43226 |
| | 450mm | E43204 |
| | 500 mm | E43227 |
| | 700 mm | E43205 |
| | 800 mm | E43337 |
| | 1000 mm | E43207 |
| | 1200 mm | E43208 |
| | 1400 mm | E43209 |
| | 1600 mm | E43210 |
| 2000 mm | E43353 | |
| Coaxial tubes, stainless steel (304 / 1.4301) | | |
| G 3/4  | 150 mm | E43230 |
| | 210 mm | E43354 |
| | 240 mm | E43211 |
| | 265 mm | E43355 |
| | 300 mm | E43228 |
| | 450mm | E43212 |
| | 500 mm | E43229 |
| | 700 mm | E43213 |
| | 800 mm | E43336 |
| | 1000 mm | E43214 |
| | 1200 mm | E43215 |
| | 1400 mm | E43216 |
| | 1600 mm | E43217 |
| 2000 mm | E43356 | |
| 3/4" NPT  | 450mm | E43218 |
| | 700 mm | E43219 |
| | 1000 mm | E43220 |
| | 1600 mm | E43221 |
| Coaxial tubes, slotted, stainless steel (304 / 1.4301) | | |
|  | 700 mm | E43333 |
| | 1200 mm | E43334 |
| Coaxial tubes, without bore, stainless steel (304 / 1.4301) | | |
|  | 450mm | E43320 |

| Process connection | Medium temperature [°C] | Order no. |
|---|----------------------------|-----------|
| 1 switching output and 1 analogue output 4...20 mA or 0...10 V | | |
| G 3/4 male | -25...80; (90 < 1 h) | LR3020 |
| 3/4" NPT | -25...80; (90 < 1 h) | LR3320 |
| 2 switching outputs | | |
| G 3/4 male | -25...80; (90 < 1 h) | LR7020 |
| 3/4" NPT | -25...80; (90 < 1 h) | LR7320 |
| 4 switching outputs | | |
| G 3/4 male | -25...80; (90 < 1 h) | LR8020 |
| 3/4" NPT | -25...80; (90 < 1 h) | LR8320 |

| Further technical data | | |
|--|-------|--|
| Operating voltage | [V] | 18...30 DC |
| Current rating | [mA] | 200 |
| Current consumption | [mA] | < 25 |
| Protection rating/ protection class | | IP 69K III |
| Max. tank pressure | [bar] | -1...16 |
| Power-on delay time | [s] | < 3 |
| Dielectric constant medium | | ≥ 1.8* |
| Ambient temperature | [°C] | -25...60 |
| Metals in contact with the medium | | stainless steel (303 / 1.4305); stainless steel (316L / 1.4435); PTFE; FKM, NBR |
| Housing materials | | stainless steel (304 / 1.4301); stainless steel (316L / 1.4404); FKM; PEI |
| IO-Link device type of transmission | | COM2 (38.4 kbaud) |
| Connection | | M12 connector |

* for media with a dielectric constant 1.8...5 (e.g. oils), a coaxial pipe is needed for operation.

Accessories

| Design | Description | Order no. |
|---|---|-----------|
| Flange plates | | |
|  | LR 73-90, stainless steel (303/1.4305) | E43201 |
| | LR 73-90, NPT, stainless steel (303/1.4305) | E43206 |
| | LR 65-80, stainless steel (303/1.4305) | E43202 |
| IO-Link accessories | | |
|  | USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 Kbits/s) | E30390 |
| | LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators | QA0011 |