



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.
<b>Probes, stainless steel (316L / 1.4404)</b>		
	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	
<b>Coaxial tubes, stainless steel (304 / 1.4301)</b>		
<b>G 3/4</b> 	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	
<b>3/4" NPT</b> 	450mm	E43218
	700 mm	E43219
	1000 mm	E43220
	1600 mm	E43221
<b>Coaxial tubes, slotted, stainless steel (304 / 1.4301)</b>		
	700 mm	E43333
	1200 mm	E43334
<b>Coaxial tubes, without bore, stainless steel (304 / 1.4301)</b>		
	450mm	E43320

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

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