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

IP 69 K

IO-Link

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**