

Continuous level measurement with analogue output and IO-Link



LR9020 level transmitter with ingress-resistant housing and IO-Link parameter setting

- Analogue output and process value transfer via IO-Link
- User-friendly parameter setting via IO-Link by means of PC or IO-Link master
- Probe lengths of 10...160 cm
- The probe can be cut to length, if needed
- Small design for limited space



Robust and reliable

The LR9020 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

Even before installation the user can set the sensor parameters via IO-Link on the PC. The data record of parameter setting can be copied to other sensors, e.g. for installations of identical design.



Applications: aqueous media, coolants, cleaning agents, oils. *

Process connection	Medium temperature [°C]	Max. tank pressure [bar]	Protection rating/ protection class	Order no.
M12-connector Output function 1 x IO-Link / 1 x analogue 4...20 mA / 0...10 V				
G 3/4	0...80	-1...4	IP 69K, III	LR9020

Accessories (to be ordered separately)

Type	Description	Order no.
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Rods high-grade stainless steel (316L / 1.4404)

	150 mm	E43225
	210 mm	E43351
	240 mm	E43203
	265 mm	E43352
	300 mm	E43226
	450 mm	E43204
	500 mm	E43227
	700 mm	E43205
	1000 mm	E43207
	1200 mm	E43208
	1400 mm	E43209
	1600 mm	E43210

Coaxial pipes stainless steel (304S15 / 1.4301)

	G 3/4	150 mm	E43230
		210 mm	E43354
		240 mm	E43211
		265 mm	E43355
		300 mm	E43228
		450 mm	E43212
		500 mm	E43229
		700 mm	E43213
		1000 mm	E43214
		1200 mm	E43215
	3/4" NPT	1400 mm	E43216
		1600 mm	E43217
		450 mm	E43218
		700 mm	E43219
		1000 mm	E43220
		1600 mm	E43221

Coaxial pipes, slotted stainless steel (304S15 / 1.4301)

	700 mm	E43333
	1200 mm	E43334

Further technical data

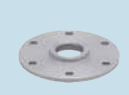
Operating voltage	[V]	18...30 DC
Current rating	[mA]	200
Current consumption	[mA]	< 80
Power-on delay time	[s]	3
Dielectric constant medium		2...20* > 20
Ambient temperature	[°C]	0...60
Metals in contact with the medium		high-grade stainless steel (316S12/1.4435), stainless steel (303/1.4305), PTFE, NBR
Housing materials		FKM, NBR, PBT, PC, TPE-V, stainless steel (1.4301/304), PTFE, PEI
IO-Link device type of transmission		COM2 (38.4 kbaud)

* A coaxial pipe is required for the unit to function correctly in low dielectric media.

Accessories (to be ordered separately)

Type	Description	Order no.
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Flange plates stainless steel (303 / 1.4305)

	Flange plate, LR 73-90	E43201
	Flange plate, LR 73 - 90 / NPT	E43206
	Flange plate, LR 65-80	E43202

IO-Link accessories

Type	Description	Order no.
	IO-Link interface for parameter setting and analysis of units with DTM specification, current consumption from USB port: max. 500 mA	E30396
	Memory plug, parameter memory for IO-Link sensors	E30398
	LINERECORDER SENSOR, software for parameter setting and setting up IO-Link sensors	QA0001