



For pure water

Conductivity sensors measure from 0.04 $\mu\text{S}/\text{cm}$

- For effective, permanent control of water and process quality
- Compact sensor requires no further hardware for operation
- High resolution enables detection of the smallest deviations



IP69



IO-Link

ifm – close to you!

Process connection	Medium temperature [°C]	Insertion depth [mm]	Pressure rating [bar]	Output measured values	Materials	Order no.
G½	-25...100; (< 1 h: 150)	23	16	conductivity, temperature	stainless steel (316L / 1.4435, 1.4404); PEEK; FKM	LDL101
G½	-25...80	73	max. 16 (up to 80 °C)	conductivity, specific resistance, temperature	1.4438, PEEK, PVDF, FKM	LDL311
½NPT	-25...80	73	max. 16 (up to 80 °C)	conductivity, specific resistance, temperature	1.4438, PEEK, PVDF, FKM	LDL321

Safe solution for permanent process quality

The LDL101 and LDL3x1 conductivity sensors are the ideal choice for applications where highest standards of water purity, and therefore product quality or process safety, must be met.

The sensors can measure conductivity from as low as 0.04 µS/cm. The LDL3x1 can also provide a specific resistance value in MΩ. This makes them ideal for the use in applications involving purified water at all treatment stages. Typical areas of application include the food and beverage industry, semiconductor production, the pharmaceutical industry and power production.

Quality assurance and condition monitoring

Thanks to a high resolution and a loss-free digital signal transmission via IO-Link, the water quality can be analysed continuously and precisely, ensuring stable and reliable processes.

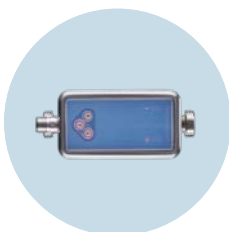
In ultrapure water processes, rising conductivity or falling resistivity can serve as an early indicator that the filters require maintenance, for example.

When monitoring cooling circuits, the sensors detect increasing mineralisation of the water at an early stage, allowing counter-measures to be initiated before damage to the piping system occurs.

Technical data		
Conductivity measuring range Specific resistance (LDL 3x1)	[µS/cm]	0.04...1,000
	[MΩ/cm]	0.001...25
Conductivity accuracy LDL101 LDL3x1	[µS/cm]	3 % MW ± 0.03 3 % ± 0.00005
	[µS/cm]	1.5 % MW ± 0.015 0.3 % ± 0.00002
Protection rating (to DIN EN 60529) LDL101 LDL3x1		IP67, IP68, IP69 IP68, IP69

MW = value of the measuring range

BEST FRIENDS



SU Puresonic

Flow measurement of conductive and non-conductive media



Vortex flow meter

Monitors flow and temperature in water pipes



IO-Link master

Field-compatible masters with PROFINET interface



For further technical details, please visit: ifm.com/fs/LDL101