1.3 DULCOTEST® Conductivity Sensors

1.3.2 2-Electrode Conductivity Sensors

Conductive conductivity sensors measure the electrolytic conductivity indirectly via the charge transfer between two probes immersed in the medium to be measured. The sensor types with cell constants k = 0.01 and k = 0.1 cm^{-1} are especially suitable for the measurement of the lowest electrolytic conductivities of < 1 µS/cm in pure and ultra-pure water.

The sensor types with cell constants k=1 cm^{-1} are used in numerous kinds of water without film-forming ingredients up to 20 mS/cm. The cost-effective sensor range LF(T) is used in clear, chemically uncontaminated water.

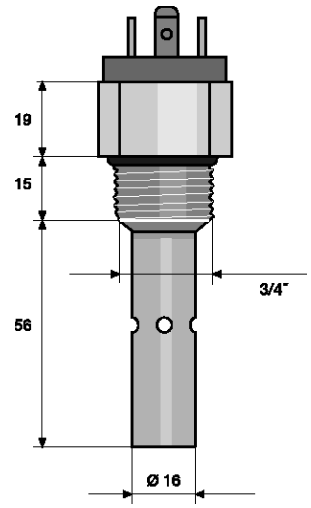
The sensor ranges LM(P), CK and CKPt can also be used in chemically contaminated kinds of water and a high temperatures.

Conductivity Sensor LMP 001

Sensor for the measurement of the lowest electrolytic conductivities for clear and also chemically contaminated water. With integrated temperature measurement and DIN 4-pin plug. For operation with the controllers Compact DCCa, DMTa, D1Ca

Your benefits

- Measured variable: electrolytic conductivity above 0.01 µS/cm
- Cost-effective sensor for clear, chemically contaminated water
- Integrated Pt 100 for temperature compensation replaces separate temperature sensor and the corresponding sensor fitting



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Measuring range	0.01…50 µS/cm
Cell constant k	0.01 cm^{-1} ±5%
Temperature measurement	Pt 100
Medium temperature	0...70 °C
Max. pressure	16.0 bar up to 50 °C,
Sensors	Stainless steel 1.4571
Shaft material	PP
Thread	3/4"
Length when fitted	71 mm
Installation	Inline: direct installation into the pipework, bypass: with or without return of the sample water into the process line
Electrical connection	DIN 4-pin angle plug
Enclosure rating	IP 65
Typical applications	Clean water applications, monitoring ion exchangers and reverse osmosis systems
Resistance to	Ingredients in the water of the target application, taking into account the compatibility of the material
Measuring and control equipment	Compact DCCa, DMTa, D1Ca
Measuring principle, technology	Conductive, 2 electrodes. Integrated temperature measurement

	Order no.
LMP 001	1020508

Please observe the general notes on p. → 1-85 (Overview Table for Conductivity Sensors)