



LFS1505.2L.20-4

Conductivity Sensor

For various conductivity measurement applications

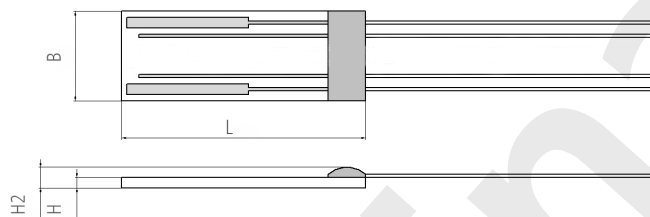
Benefits & Characteristics

- Wide conductivity range
- Fast response time
- Optimal accuracy
- Resistance to various chemicals¹⁾
- Excellent long-term stability
- Four-electrode measurement²⁾
- Customer-specific sensor available upon request

1) Aggressive media can influence the long-term stability. Chemical resistance of the sensor in the end application must be tested by the customer.

2) Two-electrode configuration available upon request.

Illustration³⁾



3) For actual size, see dimensions.

Technical Data

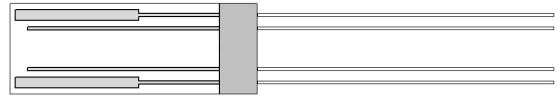
Conductivity range:*	1000 $\mu\text{S}/\text{cm}$ to 100 mS/cm
Cell constant ⁴⁾ :*	typical 0.66 cm^{-1}
Measurement frequency range:	100 Hz to 10 kHz
Maximum excitation voltage (between pin 1 and pin 4):	< 0.7 Vpp (electrolysis of the analyte has to be avoided)
Operating temperature range:	-30 °C to +100 °C
Connection:*	Pt/Ni-wires, \varnothing 0.2 mm Cu/Ag-wires, PTFE-insulated, AWG 28, 20 mm other wire lengths available on request
Storage temperature:	-20 °C to +100 °C

4) Cell constant is strongly affected by external objects coming close to the front surface of the sensor.

* Customer-specific alternatives available



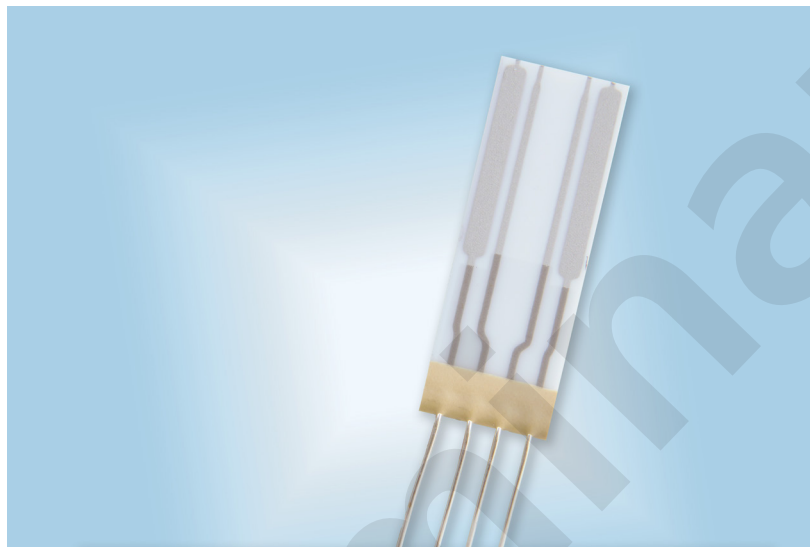
Pin Assignment



1	2	3	4
I_2	V_2	V_1	I_1

I: applied current V: measured voltage

Product Photo



Order Information

Size	Dimensions (L x W x H / H2 in mm)	Product name	Order code
1505	14.9 ±0.3 x 5.5 ±0.3 x 0.65 ±0.1 / 1.2 ±0.3	LFS1505.2L.200-4	154008

IST AG also offers conductivity sensors with an PT1000 temperature sensor included on the chip.
Visit www.ist-ag.com/conductivity for more information



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