

CUSTOMIZED SENSOR SOLUTIONS FOR YOUR APPLICATION

Benefit from an agile co-creation of a sensor with IST AG and enable your business to focus on your core competence: From simple adaptations of our sensors to fit your application's needs to new development of a tailor-made sensor – from early prototyping to series manufacturing.

IST Innovative Sensor Technology
physical. chemical. biological.



CONDUCTIVITY SENSORS

Conductivity measurement with high chemical resistance and optional integrated temperature sensor for optimal accuracy





AUTOMATION



BIOTECHNOLOGY



HANDHELD DEVICES



MEDICAL



PROCESS CONTROL



SOIL TREATMENT

Conductivity measurements are widely used in industrial and environmental applications as a simple and inexpensive way to control the ionic content in a solution. Our conductivity sensor components are designed for system integrators that plan to take advantage of a compact integration of conductivity in their products or design a sensor probe and transmitter.

Conductivity Sensors

IST AG has combined thin- and thick-film technologies to develop ceramic-based conductivity sensors that include a resistive temperature sensor (Pt1000 IEC 60751 F0.3), thus allowing for accurate compensation at the point of measurement.

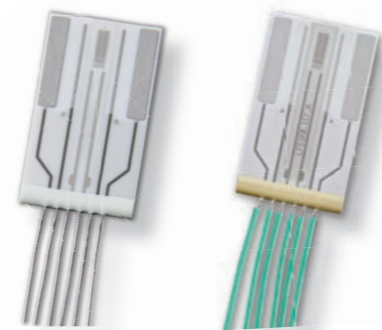
- Wide conductivity range from from 10 $\mu\text{S}/\text{cm}$ -200 mS/cm
- Available with different chip sizes and cell constants
- Wide temperature range from -30 °C up to +100°C
- Integrated RTD for temperature measurement and/or compensation

Our conductivity sensors typically consist of two current electrodes and two measuring electrodes. This basic design can be adjusted to specific applications and requirements. Since one of our main competences is the development of customized sensors, we encourage our customers to reach out to us to discuss their application and requirements, so we can recommend a sensor with an appropriate geometry and cell constant.

Conductivity Sensor LFS1710 with integrated temperature sensor

Our LFS1710 is optimal for water quality and waste water treatment applications with a conductivity measuring range from 0.2 mS/cm to 200 mS/cm (typical cell constant of 0.44 cm^{-1})

- 4 electrodes and integrated temperature sensors (Pt1000, class F0.3)
- Wide conductivity and temperature range
- Fast response time
- Optimal accuracy
- Resistance to various chemicals
- Excellent long-term stability



Conductivity Sensor LFS1505 with integrated temperature sensor

Optimal for applications with a conductivity measuring range from 100 $\mu\text{S}/\text{cm}$ to 200 mS/cm with integrated temperature sensor.

- Fast response time
- Optimal accuracy
- Wide temperature range -30 °C up to +100 °C
- Resistance to various chemicals
- Four-electrode measurement
- Ideal for low-cost solution for handheld instruments in medical technology
- Excellent long-term stability



Commodity Conductivity Sensor LFS1505

Our LFS1505 thick-film commodity conductivity sensor fits easily into small handheld measuring devices as well as single-use applications.

- Fast response time
- Optimal accuracy
- Wide temperature range -30 °C up to +100 °C
- Resistance to various chemicals
- Adaptable to the needs of any applications
- Ideal for low-cost solution for handheld instruments in medical technology
- Single-use applications

