

LF Pt 100

Conductivity/TDS Probe



Conductivity measuring cell for a measuring range up to 5 mS/cm with integrated temperature sensor.

Measuring method	Conductive
Measuring range	0.1~5000 μ S/cm
Response time	< 10 s
Operating pressure	6 bar
Sample temperature	2~70 °C
Plug	Open cable or DIN-plug
Material	PPE, graphite electrodes
Dimensions	160 mm x 12 mm

Product code 726 020

- Compact
- Universal application
- Temperature compensation

Method

The conductivity of aqueous solutions depends on the dissolved substances. Ions are responsible for transporting electrical charges in solution. Pure water contains almost no ions and consequently its conductivity is very low. The electrical conductivity probe applies an alternating electrical current to the solution and measures its resistance to calculate the conductivity.

A sum parameter related to the electrical conductivity is the amount of total dissolved solids (TDS). Salts are often the most important dissolved solids. In solution they release ions, which increase conductivity. Because of that the TDS value can in many cases be estimated reliably from the conductivity. When EC is given in μ S/cm, the conversion factor to get the TDS value in mg/l is usually between 0.5 and 0.8.

Applications

Drinking water
Surface water
Process water
Cooling lubricants