

ONLINE ELECTRICAL CONDUCTIVITY METER

EC SENSOR



Applications

Oil Pipeline Corrosion Monitoring


Environmental Protection

Sewage Treatment

Acquaculture

Environmental Monitoring

Water Source Monitoring



Electrical conductivity is the ability of a material to carry an electrical current. It has been measured for many years and it is still an important and widely used analytical parameter today. It is an easy simple and economical way to provide an indication of the purity of the measured medium, typically, water (the higher the conductivity reading, the higher is the concentration of dissolved ions in the water).

The excellent reliability, sensitivity, response and relatively low cost of the equipment make conductivity a valuable, easy-to-use tool for quality control.

ELCAVAN conductivity sensors are factory calibrated and certified valid for one year from installation unless measurement is in samples that could deposit solids or otherwise foul the electrodes or insulator of the sensor.

It is recommended to verify accuracy and make calibration adjustments if necessary, on an annual basis. Calibrations can be performed by company service personnel or by returning equipment to the factory.



Features

On-line and Real Time Measurement

High Accuracy

Electromagnetic Isolation

Strong Resistance to Corrosion

Polarization Resistance

Digital Output

Integral Design without External Transmitter



Technical Specification

Description	Explanations
Measuring medium	Liquid
Principle	Frequency conversion method
Range	0~500 μ s/cm, 0~5000 μ s/cm, 0~10000 μ s/cm, 0~50000 μ s/cm (any range of 0-300ms/cm can be customized, 1ms/cm = 1000 μ s/cm)
Supply	12-30VDC (power consumption<0.2W)
Accuracy	\pm 1%
Response time	1s
Output Signal	RS485
Electrode	Graphite
Temperature compensation	Automatic compensation
Drift	\leq 0.3%FS/24h
Operating Temperature	-20 $^{\circ}$ C-+80 $^{\circ}$ C
Probe material	316L or ABS (Strongly corrosive liquids)
Ingress Protection	IP66, IP67, IP68
Cable length	Default:5m

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