More than sensors + automation

JUMO BlackLine CR 4P

Conductive four-electrode conductivity sensor



The features at a glance

- High-quality 4-pole graphite measuring cell for a wide range of applications
- Wide measuring range for application in media with strong conductivity change
- Reliable measurement in pressurized lines up to 6 bar
- Suitable for any commercially available fitting with Pg 13.5 screw connection



Type 202931

Brief overview

The conductivity sensor has 4 electrodes made of robust special graphite and features a large measuring range. As a result, it is predestined for determining the conductivity of high salt concentrations. It is therefore not only used in drinking and process water plants but also in such applications as salt and sea water. The proven design allows the sensor to be easily installed in commercially available process fittings with a Pg 13.5 thread.

Advantages of JUMO digiLine electronic components

The use of JUMO digiLine electronic components ensures interference-free digital data transmission for optimum process monitoring. The modular system can be used for individual measuring points as well as for sensor networks. Plug and Play functionality when connected to transmitters from the JUMO AQUIS touch series facilitates the exchange of sensors. The JUMO DSM (Digital Sensor Management) software tool enables simple, reliable sensor calibration as well as comprehensive measuring point management to be conveniently carried out on a PC. A version with analog output (4 to 20 mA) allows integration into existing plants.



JUMO digiLine CR ST10
Transmitter for separate conductive conductivity sensor (type 202762)



Technical data

Designation	**JUMO BlackLine CR 4P**
Data sheet	202931
Measuring range, cell constant	1 µS/cm to 300 mS/cm K = 0.25 cm^{-1}
Operating temperature	-5 to +80 °C
Maximum pressure	6 bar at 25 °C
Temperature measurement	Pt100 or Pt1000, class B
Electrical connection	Fixed cable or M12 connector (digiLine capable)
Insertion length	120 mm
Diameter	12 mm
Materials in contact with the medium	Cell housing: PPE Electrode: graphite
Process connection	Screw head Pg13.5

Application areas

- Salt water and sea water applications
- Slightly contaminated rinsing and purification baths
- Fertilizer solutions
- Drinking and well water
- General water technology

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