Digital conductivity sensor Memosens CLS15E

Memosens 2.0 contacting conductivity sensor for standard applications in pure and ultrapure water

Thông tin thêm và mức tính giá hiện tại:
www.apsc.endress.com/CLS15E

Lợi ích:

- Designed for low maintenance and a long operating life, the sensor offers best value for money.
- The sensor is sterilizable and autoclavable, allowing for installation in sterile plants.
- Thanks to its electrode geometry, Memosens CLS15E provides reliable and accurate measured values at low conductivities.
- A quality certificate stating the individual cell constant enables perfect adjustment of the measuring point.
- IIoT ready: Memosens 2.0 offers extended storage of calibration and process data, enabling better trend identification and providing a future-proof basis for predictive maintenance and enhanced IIoT services.
- Non-contact inductive signal transmission ensures maximum process safety.

Tổng quan về thông số kỹ thuật

- **Measurement range** k=0,01: 0.04 to 20 µS/cm k=0,1: 0.10 to 200 µS/cm
- **Process temperature** Threaded with fixed cable: -20 to 100 °C (-4 to 212 °F) Threaded with plug-in head: -20 to 120 °C (-4 to 248 °F) Sterilization: max. 140 °C (284 °F) for 30 minutes
- **Process pressure** 13 bar at 20 °C (188 psi at 68 °F) absolute 1 bar at 120 °C (14 psi at 248 °F) absolute

Phạm vi ứng dụng: Memosens CLS15E is perfectly suited for conductivity measurement in applications with low measuring ranges such as boiler feedwater and chip cleaning. The contacting conductivity sensor

performs reliably and accurately even in hazardous areas. CLS15E features Memosens 2.0 digital technology, offering extended storage of calibration, adjustment and process data. It facilitates predictive maintenance and provides the perfect basis for IIoT services.

Tín năng và thông số kỹ thuật

Conductivity

Measuring principle
Conductive

Application
Measurement in pure and ultrapure water range

Monitoring of ion exchangers

Reverse osmosis

Distillation and chip cleaning

Characteristic
Digital 2-electrode conductivity sensor

Measurement range
k=0,01: 0.04 to 20 µS/cm
k=0,1: 0.10 to 200 µS/cm

Measuring principle
Conductive conductivity cell with electropolished stainless steel electrodes

Design
2-electrode conductivity cell with coaxially arranged electrodes, electropolished

Material
Electrode: stainless steel 1.4435
Electrode shaft: PES

Conductivity

Dimension
Electrode diameter: 16 mm (0.63 inch)
Electrode length: appr. 55 mm (2.17 inch)

Process temperature
Threaded with fixed cable:
-20 to 100 °C (-4 to 212 °F)
Threaded with plug-in head:
-20 to 120 °C (-4 to 248 °F)
Sterilization: max. 140 °C (284 °F) for 30 minutes

Process pressure
13 bar at 20 °C (188 psi at 68 °F) absolute
1 bar at 120 °C (14 psi at 248 °F) absolute

Temperature sensor
Pt1000

Ex certification
ATEX, NEPSI, CSA, IECEx, INMETRO, EAC Ex

Connection
Process: 1/2" and 3/4" NPT, Clamp 1 1/2"
Sensor connection: Inductive, digital connection head with Memosens 2.0 technology

Ingres protection
IP68

Additional certifications
Calibration certification of the cell constante and temperature, material certification 3.1

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