

JUMO digiLine CR and JUMO digiLine Ci

Digital sensor technology for conductive and inductive conductivity measurement – **Now with IO-Link!**

Highlights

- Smart sensor for conductive and inductive conductivity and concentration measurement
- JUMO digiLine interface
- IO-Link interface
- Head transmitter with and without display
- Transmitter with separate sensor with and without display
- Digital Sensor Management (DSM) for measuring point documentation provides support with predictive maintenance
- Digital data transfer
- Modular system – for both individual measuring points and for setting up sensor networks
- Delivery includes calibration certificate
- Temperature compensation according to ASTM
- Integrated temperature compensation (e.g. linear)
- Switching function according to USP <645>

ms/cm

ppm

$\mu\text{S}/\text{cm}$

$\text{M}\Omega \cdot \text{cm}$

$^{\circ}\text{C}$



JUMO digiLine CR and JUMO digiLine Ci

With JUMO digiLine CR and JUMO digiLine Ci JUMO is expanding the intelligent, bus-compatible JUMO digiLine system to include inductive and conductive measurement of electrolytic conductivity. The smart sensors are available in compact and separate design type. In the separate design type the smart electronic components (see image to the right) and sensor are connected via a line. As a result, problematic installation situations can also be mastered (e.g. in all locations in which heat emission and vibration occurs). In addition to the JUMO digiLine interface, system integration can now also take place via an **IO-Link interface**.



Separate design type with adapted to DIN-rail mounting

Technical data

Type		JUMO digiLine CR Type 202706, 202708	JUMO digiLine Ci Type 202707, 202709
Measuring principle		Conductive: two-electrode principle; four-electrode principle	Inductive
System connection		JUMO digiLine; IO-Link	
Sensor connection		Compact or separate design type	
Measuring range (temperature-compensated)		From 0.05 µS/cm to 600 mS/cm, to 18.2 MOhm/cm	From 50 µS/cm to 2000 mS/cm
Temperature compensation		Linear; ASTM; USP <645>	Linear; customer-specific characteristic line
Concentration measurement		e.g. TDS	e.g. TDS, NaOH, HNO ₃ , NaCl
Features of possible sensors	Sensor material	e.g. stainless steel 1.4571; titanium, stainless steel 1.4435 (AISI 316L)	e.g. PP; PVDF; PEEK
	Temperature	Up to 200 °C	Up to 150 °C
	Pressure	Up to 17 bar	Up to 12 bar
Application areas		Fresh water monitoring; water treat- ment; condensate monitoring; reverse osmosis plants; ion exchanger plants; ultra-pure water applications; pharma- ceutical applications	Food and beverages industry; water and wastewater industry; bottle cleaning plants; irrigation plants; phase sepa- ration and control of CIP processes; chemical dosing; concentration mea- surement; desalination of cooling towers; desalination of seawater; brine production