



ICT200, measures liquid conductivity by using non-contact inductive measurement technology. Polyether-ether ketone (PEEK) body ensures the protection to aggressive chemicals and up to 140 °C process temperature. Also measuring the actual temperature by integrated temperature sensor inside the PEEK body, it compensates the conductivity to the reference temperature automatically and then calculates the concentration. It transmits two of the conductivity, concentration, or temperature as 4-20 mA current output.

- Calibration and maintenance free due to electrodeless, non-contact measurement
- Very high chemical resistant PEEK body, durable to 140 °C
- Selectable conductivity range from 0 ... 2000 $\mu\text{S}/\text{cm}$ to 0 ... 2000 mS/cm
- Automatic temperature-compensated
- Concentration output (g/kg, wt%, Baume) for NaCl, Na_2SO_4 and NaOH
- Solute material selection by digital input for concentration calculation

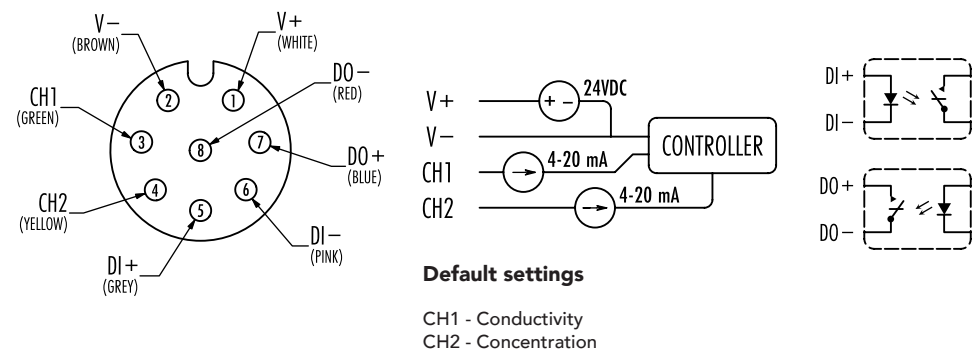
CONDUCTIVITY

Measuring range (mS/cm)	0 ... 2, 0 ... 20, 0 ... 200, 0 ... 500, 0 ... 1000, 0 ... 2000 (compensated)
Accuracy	± 0.5 %
Repeatability	0.2 %
Automatic compensation	NaCl (default), linear, user-specific
Linear temperature coefficient	0 ... 5.4 %/ °C
Reference temperature	15 ... 30 °C, 25 °C (default)

ANALOG OUTPUTS

Number of channels	2
Conductivity Concentration Temperature	4 - 20 mA, electrically isolated
Resolution	12-bit
Sampling time	500 ms
Maximum load impedance	600 Ω
Doğruluk	$\pm 0.3 \%$

CONNECTION DIAGRAM



POWER

Supply	18 ... 30 VDC
Maximum power consumption	1.5W @24 VDC
Reverse polarity protection	Yes
Electrical connection	M12, A Coded, 8-pin

DIGITAL INPUT

Voltage range (1)	18 ... 30 VDC
Input current	5 mA @ 24 VDC
Input signal type	PNP
Isolation resistance	1000 GΩ @ 500 VDC

DIGITAL OUTPUT

Contact	Solid-state relay
Maximum load current	20 mA @ 24 VDC
Isolation resistance	1000 GΩ @ 500 VDC

CONCENTRATION

Measuring range	NaCl : 0 ... 250 g/kg Na ₂ SO ₄ : 0 ... 400 g/kg NaOH : 0 ... 150 g/kg 250 ... 500 g/kg
Accuracy	± 0.5 %
Repeatability	0.2 %

GENERAL

Display	TFT-LCD, 2.8", Resistive touch
Ambient temperature	0 °C...+55 °C
Storage temperature	-25 °C...+85 °C
Electronic housing	PA6-GF30
Wetted materials	PEEK, EPDM O-ring, Stainless steel (EN 1.4404)
Enclosure protection rating	IEC 60529, IP67
Electromagnetic compatibility	IEC 61326, Class B
Environmental testing	IEC 60068
Weight	~0.76 kg

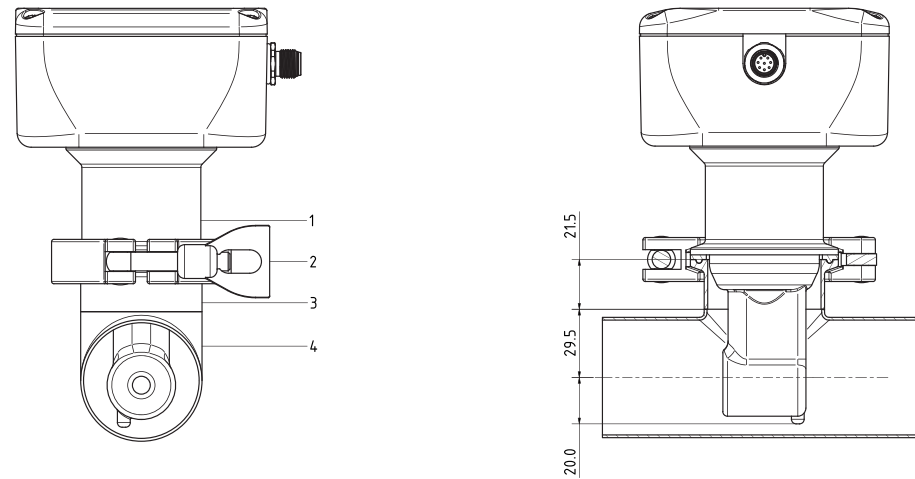
TEMPERATURE

Sensor	PT1000, Class A
Measuring range	-20 ... 140 °C
Accuracy	± 0.4 °C
Repeatability	0.1 °C

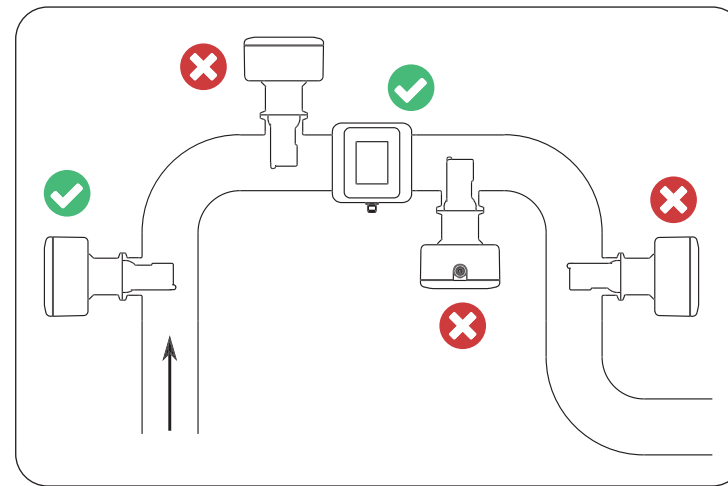
- MAINTENANCE & CALIBRATION -

Thanks to toroidal measurement technology, almost no maintenance and calibration is required. As only maintenance procedure, especially in harsh environments, probe bore should be checked regularly. If it is dirty, please remove any debris. A clogged probe bore results in misleading measurements.

MOUNTING

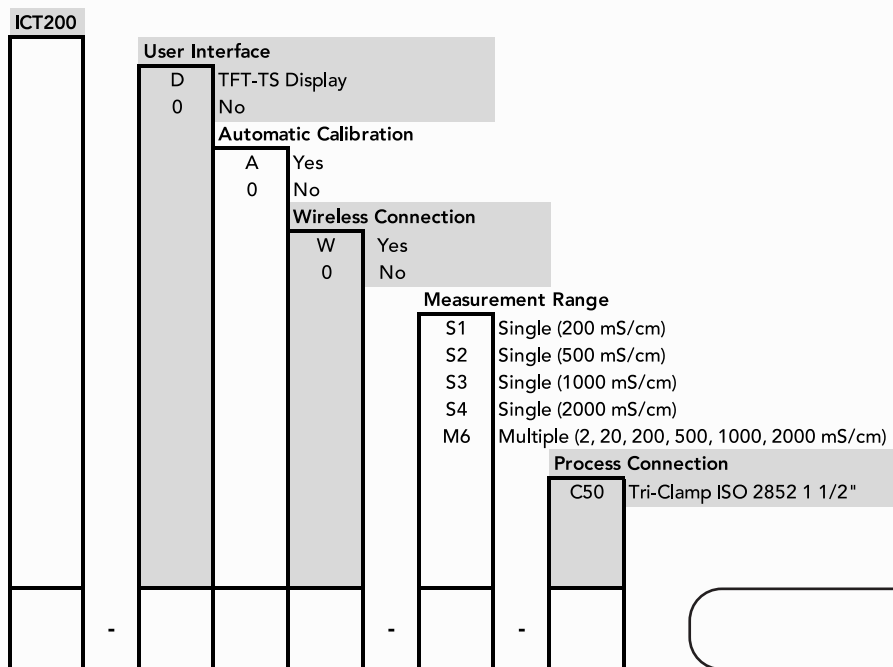


- (1) Process connection, Clamp (ISO 2852) 1 1/2", EN 1.4404
- (2) Clamp ring, EN 1.4301
- (3) Clamp liner (ISO 2852) 1 1/2", EN 1.4404
- (4) Short equal tee (ISO 2037) 1 1/2", EN 1.4404

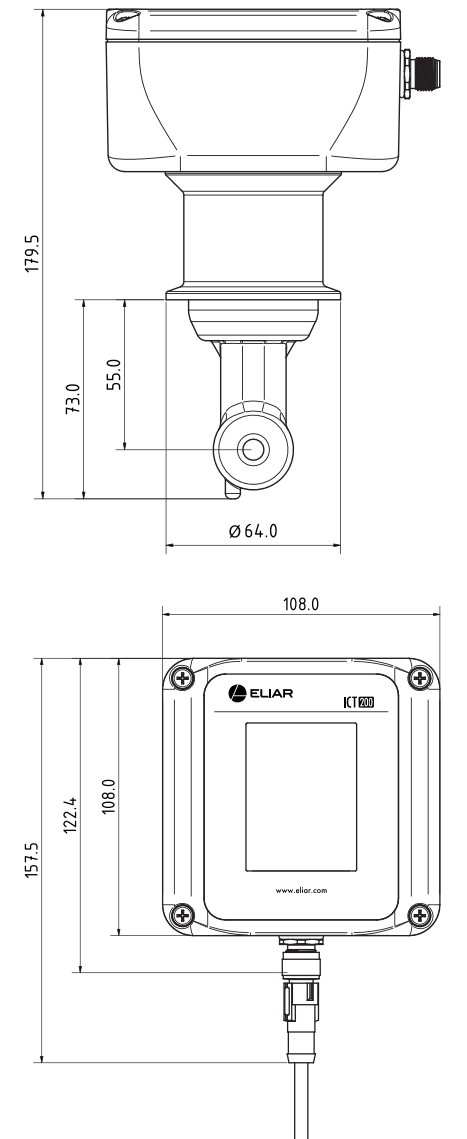


* To avoid trapped air bubbles and film formation due to the suspended particles, install the sensor in an ascending pipe with the probe bore in the flow direction.

ORDER CODE



DIMENSIONS



**All dimensions are in mm.

ACCESSORIES

Order Code	Description
SS-M128C2	Sensor Cable, M12, A-Code, 8-pin, Single End (2 m)
SS-M128C5	Sensor Cable, M12, A-Code, 8-pin, Single End (5 m)
SS-M128C10	Sensor Cable, M12, A-Code, 8-pin, Single End (10 m)
SS-C50S	Process Connection Set (Liner + EPDM Seal Ring + Heavy Duty Single Pin Ring)

*** Please make contact for your questions about the order code and other requests.

**** Remember to make accessory choice.