



C4E: CONDUCTIVITY/SALINITY, Digital technology for optimized measures

- Mounting at 4 electrodes: The electrode works with a technology in 4 electrodes: an alternating current of constant-voltage is established between a primary's pair of electrodes in graphite. The secondary's electrodes in platinum allow of regulate the voltage imposed to primary's electrodes to reflect of the fouling. The voltage measured between the primary's electrodes is in function of the resistance of place and so, of the conductivity.
- **Digital Technology:** The "smart" Digital C4E sensor stores calibration and history data within the sensor. This allows you a "plug and play" system without re-calibration.

Thanks to the Universal Modbus RS485 protocol, the PONSEL Digital C4E can be connected to all devices commonly used (Datalogger, Controller, Automat, Remote System...).

Applications

- Urban wastewater treatment
- Industrial effluent treatment
- Surface water monitoring
- Sea water
- Drinking water



	Technical specifications measures
Measure principle	Conductivity sensor with 4 electrodes (2 graphic, 2 platinum)
Measure ranges conductivity	• 0-200,0 µS/cm
-	• 0 −2000 µS/cm
	• 0,00 -20,00 mS/cm
	• 0,0 –200,0 mS/cm
	AUTOMATIC RANGE
Resolution	0,01 to 1 according the range
Accuracy	± 1 % of the full range
Measure range salinity	5-60 g/Kg
Measure range TDS -KCI	0-133 000 ppm
Response time	<5s
Working temperature	0°C to + 50°C
Temperature compensation	NTC
Stocking temperature	-10°C to + 60°C
Signal interface	Modbus RS-485 and SDI-12
Maximum refreshing time	Max < 1 s
Sensor power-supply	5 to 12 volts
Electric consumption	Standby : 25 μA
	Average RS485 (1 measure/second): 6,3 mA
	Average SDI12 (1 measure/second): 9,2 mA
	Current pulse: 500 mA
	Technical specifications sensor
Dimensions	Diameter: 27 mm; Length: 177 mm
Weight	300 g (sensor + cable 3 meters)
Material	PVC, DELRIN, stainless steel
Maximum pressure	5 bars
Connection	9 armoured connectors, polyurethane jacket, bare-wires or
	waterproof Fisher connector
Degree of protection	IP68

ADVANTAGES



- 4 electrodes (2 graphic, 2 platinum)
- Range 0 to 200 mS/cm and automatic range
- Digital sensor Modbus RS-485 / SDI-12
- · Robust and Watertight

Reference

C4E SENSOR WITH FISCHER CONNECTOR Conductivity/TPF-CAP-C-00149 Digital Probe - 3 m cable

C4E SENSOR WITH FISCHER CONNECTOR Conductivity/TPF-CAP-C-00150 Digital Probe - 7 m cable

C4E SENSOR WITH FISCHER CONNECTOR Conductivity/TPF-CAP-C-00167
Digital Probe - 15 m cable

Digital Front To III Gable	
C4E SENSOR, 3 meters cable, bare wire	PF-CAP-C-00169
C4E SENSOR, 7 meters cable, bare wire	PF-CAP-C-00170
C4E SENSOR, 15 meters cable, bare wire	PF-CAP-C-00156

