

DIGITAL SENSOR

C4E : CONDUCTIVITY/SALINITY

Digital Technology for optimized measures

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

Applications :

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

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...).



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
Resolution	0,01 to 1 according the range
Accuracy	+/- 1 % of the full range
Measure range salinity	5-60 g/Kg
Measure range TDS -KCl	0-133 000 ppm
Response time	< 5 s
Working temperature	0°C to 50°C
Temperature compensation	CTN
Stocking temperature	- 10°C to + 60°C
Signal interface	Modbus RS-485 (option SDI-12)
Maximum refreshing time	Max < 1 s
Sensor power-supply	5 à 12 volts
Electric consumption	Standby : 25 µA Average RS485 (1 mesure/seconde) : 6,3 mA Average SDI12 (1 mesure/seconde) : 9,2 mA Current pulse : 500 mA

Sensor	
Dimensions	Diameter : 27 mm ; Lenght : 177 mm
Weight	350g (sensor + 3 m cable)
Material	PVC, stainless steel
Maximum pressure	5 bars
Connection	9 armoured connectors, polyurethane jacket, bare-wires or waterproof Fisher connector
Protection	IP68

Dimensions	Wiring diagram												
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