



Datasheet water quality probe C4E

C4E : CONDUCTIVITY / SALINITY

Digital Technology (with 4 electrodes) for optimized measures

- 4 électrodes (2 graphitic, 2 platinum)
- Conductivity, salinity and temperature
- Measuring range 0 to 200 mS/cm in 4 ranges
- Digital sensor / Modbus RS-485
- Compact, **robust** and watertight sensor



Application :

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

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.

Affordable and efficient technology requiring only little maintenance and no consumable.

Digital technology / integrated transmitter :

The sensor connect to the loggers of the LOG V3 range on Modbus RS485 input

The smart digital C4E sensor stores calibration and history data within the sensor. This allows you a plug and play system without re-calibration.

Body:

Compact, rugged and light, stainless steel sensor allows a handheld or stationary.



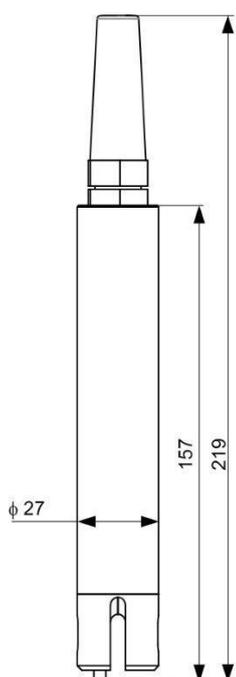
Features

Measure principle	Conductivity sensor with 4 electrodes (2 graphites, 2 platinum)
Conductivity measuring range	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 depending on the range
Accuracy	+/- 1 % of the measure value
Salinity measuring range	5 - 60 g/Kg
TDS-KCl	0 - 133 000 ppm
Responce time	< 5 s
Working temperature	0°C to + 50°C
Température compensation	Via CTN
Storage temperature	- 10°C to + 60°C
Interface signal	Modbus RS-485
Measure refreshing time	Maximum < 1 second
Sensor power-supply	5 to 12 volts
Electric consumption	Standby : 25 μ A Average RS485 (1 measure/second) : 6,3 mA Current pulse : 500 mA

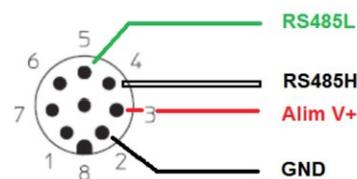
Sensor

Dimensions	Diameter : 27 mm ; Lenght : 177 mm
Weight	350g (sensor + 3m cable)
Housing	PVC, inox
Max pressure	5 bars
Indice de protection	IP68

Dimensions



Wiring diagram



Connector M12 8Pts male view

2	Black	GND
3	Red	Power supply V+
4	White	RS485H
5	Green	RS485L

