



## Conductivity probe B&C C8825.4

This probe measures electrical conductivity using the inductive method.

- The probe includes a temperature sensor for automatic compensation
- Conductivity range from 0 up to 200 mS/cm
- Digital communication Modbus RS-485
- Compact sensor, rugged and IP68

### Applications :

- Urban wastewater treatment
- Industrial effluent treatment
- Surface water monitoring
- Fish farming, aquaculture, sea water
- Drinking water

### Inductive Method :

The toroidal conductivity sensor consists of two windings on toroidal coils, placed side by side, embedded in a plastic material and therefore not in contact with the sample. A through hole allows the solution to close an imaginary electrical circuit around them. An alternating voltage is applied to the transmitter coil while a current proportional to the conductivity of the sample is measured on the detector coil.

### Digital communication :

The C8835.4 sensor connects to the dataloggers LOGV3 and LP0250 on their Modbus RS485 input.



Technical specifications	
Measuring method	Toroidal
Conductivity scales	0/4.000 – 0/40.00 – 0/400.0 mS – 0/20.00 0/200.0 – 0/2000 mS
Sensitivity	60/160 % (100 % by default)
Zero	± 10 % of the full-scale (0 % by default)
Resolution	1 digit
Power supply	9/36 Vcc
Load	600 Ohm max. at 24 Vdc
Operating temperature	60 °C max.
Temperature limit	- 5/50° C part in contact with the liquid
Reference temperature	20°C
Temperature coefficient	0.00/3.50 %/°C (2% /°C by default)
Operating pressure	10 bar at 25 °C / 5 bar at 50 °C
Dimensions	L=188 mm, Ø 48 mm
Connection	Connector M12 5Pts
Body housing / Weight	PVC-C / 520 g
Cable length / housing / Weight	10 m / PVC sheath / 640 g
Protection	IP68

