



CTZN : INDUCTIVE CONDUCTIVITY, Inductive conductivity no sensitive to the fouling

- **Measured parameters:** Conductivity compensated in temperature (mS/cm), Conductivity non-compensated in temperature (mS/cm), Salinity (g/Kg), Temperature (°C)
- **Inductive method:** A ring-type coil is excited at fixed intervals and the response is retrieved on a second coil, which is linked to the excited coil. The connectivity between the coils (determined by the degree of conductivity) takes place via the conducting solution. Economic and successful technology that requiring not enough maintenance and not consumable.
- **Digital Technology:** The “smart” Digital CTZN 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 CTZN

Applications

Urban wastewater treatment, Industrial effluent treatment, Surface water monitoring, Sea water, Fish farming

ADVANTAGES



- Sensor regulated in temperature
- Ranges 0 to 100 mS/cm
- Numerical communication Modbus RS-485 and SDI12
- Compact, robust and watertight



Technical specifications measures

Measure principle	Inductive conductivity sensor regulated in temperature		
Measure ranges conductivity	0,0 –100,0 mS/cm		
Resolution	0,1		
Measure ranges salinity	5-60 g/Kg		
Working temperature	0 to 50 °C		
Temperature compensation	With NTC		
Accuracy T°C	± 0.5 °C		
Response time	90% of the value in less than 30 seconds		
Stocking temperature	-10°C to + 60°C		
Signal interface	Modbus RS-485 and SDI-12		
Sensor power-supply	5 to 28 volts, max 30 V		
Electric consumption	Automatic Standby < 50 µA , Heating time 100 mS Average Modbus RS485		
	1 measure/s :	Vin 5V	Vin 12 V
	1 measure/s	31 mA	15,5 mA
			Vin 24 V
			11,5 mA
	Max current pulse 700 mA during 2 mS, 350 mA during 150 mS		

Technical specifications sensor

Dimensions	Diameter max. 62,4 mm, Length : 196 mm
Weight	700 g
Material	EPDM, PVC, Stainless steel
Maximum pressure	5 bars
Connection	9 armoured connectors, polyurethane jacket, bare-wires or waterproof Fisher connector
Degree of protection	IP68

References

CTZN SENSOR, 3 METERS CABLE, BARE WIRE - STAINLESS STEEL IN PIPE INSTALLATION	PF-CAP-C-00265
CTZN SENSOR, 3 METERS CABLE, BARE WIRE - VERSION IMMERSION/PVC IN PIPE INSTALLATION	PF-CAP-C-00259
CTZN SENSOR, 7 METERS CABLE, BARE WIRE - STAINLESS STEEL IN PIPE INSTALLATION	PF-CAP-C-00266
CTZN SENSOR, 7 METERS CABLE, BARE WIRE - VERSION IMMERSION/PVC IN PIPE INSTALLATION	PF-CAP-C-00261
CTZN SENSOR, 15 METERS CABLE, BARE WIRE - STAINLESS STEEL IN PIPE INSTALLATION	PF-CAP-C-00256
CTZN SENSOR, 15 METERS CABLE, BARE WIRE - VERSION IMMERSION/PVC IN PIPE INSTALLATION	PF-CAP-C-00253



Rental available