

AQUOLABO

CONTRÔLE

DIGITAL SENSORS DIGISENS SMART SENSORS FOR WATER CONTROL



Mono or multi-parameter handheld device



Remote Control



Transmitter Display



Data loggers Recorders

DIGITAL INPUT SYSTEM



DIGITAL COMMUNICATION
MODBUS RS485
SDI12

DIGITAL OUTPUT SENSOR

- Universal communication Modbus RS485 / SDI-12
- Compatible with all types of transmitters, recorders, remote control, controller equipped with a RS485 input or SDI-12 ...
- Integrated transmitter (recording of calibration data, history and measurement processing in the sensor)
- Ultra-low power technology



DIGITAL COMMUNICATION

The DIGISENS sensors can connect to any type of recorder, transmitter or controller with a Modbus RS485 input, making data transfer more reliable.

The digital signal processing combined with the pre-amplification of the measurement allow high reliability.

INTEGRATED TRANSMITTER

All calibration data for (offset, slope), history, users and

measures be processed directly in the sensor and transmitted via Modbus RS-485 or SDI-12.

MECHANICAL

Digital sensors are compact, rugged and light. They are made of stainless steel or PVC materials for portable or stationary use in the most fouling environments.

SPECIFICATIONS

	Parameter	Dimensions	Range	Accuracy	Sensor
PH/ORP/°C	Temperature		0,00 - + 50,00 °C	± 0,5°C	CTN
	pH	Diameter : 27 mm Lenght without cable : 159 mm Weight : 350 g (sensor + cable)	0,00 - 14,00 pH	± 0,1	Combined electrode (pH /reference) : special glass Reference Ag/AgCl. Electrolyte plastogel (KCl)
	ORP		- 1000,0 to + 1000,0 mV	± 2 mV	Combined electrode (Redox/reference) : Platinum electrode, Reference Ag/AgCl. Electrolyte plastogel (KCl)
EHAN	ORP Temperature	Diameter: 27 mm Lenght without cable : 324 mm Weight : 350 g (sensor + cable)	- 1000,0 to + 1000,0 mV	± 10 mV	Combined electrode (ORP/reference) : platinum ring, Reference Ag/AgCl. Gelled electrolyte (KCl)
OPTOD	Dissolved Oxygen/°C	Diameter : 25 mm Lenght without cable : 146 mm Weight : 450 g (sensor + cable)	0,00 - 20,00 mg/L 0,0 - 200,0 % SAT	± 0,1 mg/L ± 1 %	PONSEL OPTOD® optical luminescence technology ASTM D888 – 05 Compliance
C4E	Conductivity	Diameter : 27 mm Lenght without cable : 177 mm Weight : 350 g (sensor + cable)	0,0 - 200,0 µS/cm 0 - 2 000 µS/cm 0,00 - 20,00 mS/cm 0,0 - 200,0 mS/cm AUTOMATIC Range	± 1 % of the full scale	C4E Technology 4 electrodes (2 platinum and 2 graphite)
	Salinity		0,00-150,00 ppt	± 1 % of the full scale	C4E Technology 4 electrodes (2 platinum and 2 graphite)
CTZN	Conductivity	Diameter: 39.80 mm Lenght without cable : 258.6 mm Weight : 700 g (sensor + cable)	0,0 – 100,0 mS/cm	< 5%	Inductive conductivity sensor compensated in temperature
	Salinity		5-60 g/Kg		
NTU	Turbidity	Diameter : 27 mm Lenght without cable : 170 mm Weight : 300 g (sensor + cable)	0,00 - 50,0 NTU 0,0 - 200,0 NTU 0 - 1000 NTU 0 - 4000 NTU AUTOMATIC Range	± 1 % of the full scale NTU	IR 90° technology ISO 7027 compliance
MES5	Turbidity Sludge blanket	Diameter 64 mm Lenght without cable : 281 mm Weight : 750 g (sensor + cable)	0-50 g/L 0-4000 FAU 0-100%	MES < 10% Turbidity : ± 5% FAU VB ± 2%	Optical IR (870 nm) based on absorptiometry
VB5	Sludge blanket		0-100%	VB ± 2%	

- **Interface signal:** RS485 Modbus and SDI12
- **Sensor power supply:** 5-12 volts / 5-28 volts (CTZN, MES5 VB5)
- **Pressure max.:** 5 bars
- **Cable 9 armored connectors,** polyurethane sheath, bare wire
- **Protection:** IP 68

APPLICATION AREAS

- Wastewater
- Industrial effluent
- Monitoring of surface water
- Fish farming
- Drinking water