

AQUALABO

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.

More than 248 indexed sensors can be connected on the same RS485 input.

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 (optional).

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 Length without cable : 159 mm	0,00 - 14,00 pH	± 0,1	Combined electrode (pH /reference) : special glass Reference Ag/AgCl. Electrolyte plastogel (KCl)
	ORP	Weight : 350 g (sensor + cable)	- 1000,0 to + 1000,0 mV	± 2 mV	Combined electrode (Redox/ reference) : Platinum electrode, Reference Ag/AgCl. Electrolyte plastogel (KCl)
OPTOD	Dissolved Oxygen/T°C	Diameter : 25 mm Length 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 Length without cable : 177 mm Weight : 350 g (sensor + cable)	0,0 - 200,0 µS/cm 0 - 2 000 µS/cm AUTOMATIC Range 0,00 - 20,00 mS/cm 0,0 - 200,0 mS/cm	± 1 % of the full scale	C4E Technology 4 electrodes (2 platinum and 2 graphite)
	Salinity		0,00-150,00 ppt	± 0,5 % of the full scale	C4E Technology 4 electrodes (2 platinum and 2 graphite)
NTU	Turbidity	Diameter : 27 mm Length without cable : 170 mm Weight : 300 g (sensor + cable)	0,00 - 50,0 NTU 0,0 - 200,0 NTU 0 - 1000 NTU AUTOMATIC Range 0 - 4000 NTU	± 1 % of the full scale NTU	IR 90° technology ISO 7027 compliance

- **Interface Signal:** RS485 Modbus (SDI-12 option)
- **Measurement refresh rate:** <1 sec max.
- **Sensor power supply:** 5-12 Volts
- **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