geotech

Water Quality Sensors

Aqualabo DIGISENS Digital Water Quality Sensors

Aqualabo water quality sensors are designed for portable or dedicated applications where water quality parameters are being monitored. Each sensor easily connects to data loggers, transmitters or controllers using Modbus RS-485 or SDI-12 communication protocols. Select from either one or multiple sensor parameters based on application – then select reporting options for either real-time readings or remote data telemetry access.

PHEHT DIGITAL pH, ORP (EH), & TEMPERATURE

This pH, ORP, and temp sensor has been designed to perform in environments that range from pure mountain water to lakes, rivers, and even seawater or waste water environments. The sensor features Plastogel® Ponsel® technology that increases the life of the probe. Intended for handheld or in situ applications – PHEHT provides quick measurement responses with minimal flow dependence and low power consumption.

Applications

- Urban Wastewater Treatment (inlet/outlet controls)
- Sanitation Network
- Industrial Effluent Treatment
- Surface Water Monitoring
- Fish Farming
- Drinking Water
- Pool, Spa, Water Venues

Technical Specifications

pH Measurements	
Measure Principle	Combined electrode (pH/ref): special glass, Ag/AgCl ref. Gelled electrolyte (KCl)
Range	0-14 pH
Resolution	0.01 pH
Accuracy	±0.1 pH
ORP Measurements	
Measure Principle	Combined electrode (ORP/reference): Platinum tip, Ag/AgCl AgAgCl. Gelled reference (KCl)
Range	-1000 to +1000 mV
Resolution	0.1 mV
Accuracy	±2 mV
Temperature Measurements	
Technology	NTC
Range	0.00°C to +50.00°C (32°F to 122°F)
Resolution	0.01°
Accuracy	±0.5°
Response Time	<5s
Storage Temperature	0°C to +60°C
Protection	IP 68
Interface	Modbus RS-485/SDI-12
Power Supply	5 to 12 volts
Power Consumption	Standby: 25µA Average RS-485 (1 measure/second): 3.9 mA Average SDI-12 (1 measure/second): 6.8 mA Current Pulse: 500 mA
Sensor	
Dimensions	Diameter: 27/21 mm (1.06"/.83"); Length: 207 mm (8.15")
Weight	350 g (0.7 lbs.) (sensor + 3 m cable)
Material	PVC, DELRIN, special pH glass, platinum, polyamide
Pressure	5 bars (72 psi)
Cable	Coaxial armored, Polyurethane, bare wire or Fisher connector
Protection	IP 68

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Aqualabo DIGISENS Digital Water Quality Sensors

EHAN DIGITAL ORP & TEMPERATURE

The EHAN ORP and Temperature sensor features an interchangeable cartridge with Plastogel® electrolyte reference solutions. This sensor communicates directly without interposition of capillary or pours – eliminating the risk of the reference point clogging or reference solution defusing.

Applications

Treatment of urban waste water (entrance, aeration tank, exit), industrial sewage treatment (optimization process of nitrifying/denitrifying), deodorization channels.

Also pool, spa, and water venues for chlorine correlations/concentrations.

Technical Specifications

ORP Measurements

Measuring Principle ORP	Combination electrode (ORP/reference): Platinum Ring Reference Ag/AgCl. Gelled electrolyte (KCl)
Measurement Range	-1000.0 to +1000.0 mV
Resolution	±0.1 mV
Accuracy	±10 mV
Response Time	90s

Temperature Measurements

Measuring Principle T°C	NTC
Operating Temperature	0.00°C to 50.00°C (32°F to 122°F)
Resolution	0.01°
Storage Temperature	0°C to +60°C (32°F to +140°F)
Protection	IP 68
Interface Signal	RS-485 Modbus/SDI-12
Refresh Rate Measurement	Maximum <1 second
Sensor Supply	5-12 volts
Consumption	Standby: 25µA, RS-485 Average (1 measure/second): 20 mA, Pulse current: 500 mA, Heating: 100 mS

Sensor

Dimension of Equipped Sensor	Upper Part: 27 mm (1.06") diameter; Length 103 mm (4.05") Cartridge Length: 173 mm (6.81"); Equipped Sensor Length: 262 mm (10.31") without gland
Weight	350 g (0.7 lbs.) (cable + sensor)
Materials In Contact With The Environment	PVC, POM-C, platinum, Polyurethane
Maximum Pressure	5 bars (72 psi)
Cable/Connector	9 armored connectors, polyurethane sheath, bare wires or sealed metal Fischer connector

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C4E DIGITAL CONDUCTIVITY, SALINITY, & TEMPERATURE

The conductivity sensor uses digital technology for optimized measurements. Using 4 mounting electrodes, voltage between the two primary graphite electrodes are compared against a secondary pair of platinum electrodes for fouling compensation. The Digital C4E sensor stores calibration and data history within the sensor – allowing for simple plug-and-play sensor replacement without recalibration.

Applications

- Urban Wastewater Treatment
- Industrial Effluent Treatment
- Surface Water Monitoring
- Sea Water
- Drinking Water

Technical Specifications

Measurements

Measurement Principle	Conductivity sensor with 4 electrodes (2 graphic, 2 platinum)
Conductivity Measurement Ranges	• 0-200.0 µS/cm • 0-2000 µS/cm • 0.00-20.00 mS/cm • 0.0-200.0 mS/cm • AUTOMATIC RANGE
Resolution	0.01 to 1 according the range
Accuracy	±1% of the full range
Salinity Measurement Range	5-60 g/Kg
TDS -KCl Measurement Range	0-133.000 ppm
Response Time	<5s
Working Temperature	0°C to +50°C (32°F to +122°F)
Temperature Compensation	NTC
Stocking Temperature	-10°C to +60°C (14°F to +140°F)
Signal Interface	Modbus RS-485 and SDI-12
Maximum Refreshing Time	Max <1 s
Sensor Power-Supply	5 to 12 volts
Electric Consumption	Standby: 25 µA Average RS-485 (1 measure/second): 6.3 mA Average SDI-12 (1 measure/second): 9.2 mA Current Pulse: 500 mA

Sensor

Dimensions	Diameter: 27 mm (1.06"); Length: 177 mm (7.96")
Weight	300 g (sensor + 3 meter cable)
Material	PVC, DELRIN, stainless steel
Maximum Pressure	5 bars (72 psi)
Connection	9 armored connectors, polyurethane jacket, bare-wires or waterproof Fisher connector
Degree of Protection	IP 68

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CTZN INDUCTIVE CONDUCTIVITY, SALINITY, & TEMPERATURE

The smart CTZN conductivity sensor uses an inductive dual ring-type coil. The CTZN stores calibration and history data within the sensor – allowing for simple plug-and-play sensor replacement without recalibration.

Applications

- Urban Wastewater Treatment
- Industrial Effluent Treatment
- Surface Water Monitoring
- Sea Water
- Fish Farming

Version for stainless steel pipe-mounting

Technical Specifications

Measurements

Measurement Principle	Inductive conductivity sensor regulated in temperature
Conductivity Measurement Ranges	0.0-100.0 mS/cm
Resolution	0.1
Salinity Measurement Ranges	5-60 g/Kg
Working Temperature	0 to 50°C (32°F to +122°F)
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 (14°F to +140°F)
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 RS-485

1 measure/s:	Vin 5V	Vin 12 V	Vin 24 V
1 measure/s:	31 mA	15.5 mA	11.5 mA

Max current pulse 700 mA during 2 mS, 350 mA during 150 mS

Sensor

Dimensions	Maximum Diameter: 62.4 mm (2.45"), Length: 196 mm (7.71")
Weight	700 g (1.5 lbs.)
Material	EPDM, PVC, stainless steel
Maximum Pressure	5 bars (72 psi)
Connection	9 armored connectors, polyurethane jacket, bare-wires or waterproof Fisher connector
Degree of Protection	IP 68

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Aqualabo DIGISENS Digital Water Quality Sensors

OPTOD OPTICAL DISSOLVED OXYGEN

The OPTOD is a luminescent optical dissolved oxygen sensor that can be used with the ODEON handheld display or integrated into an external data logger controller. Available in 316 Stainless Steel or Titanium materials.

Applications

- Urban Wastewater Treatment
- Industrial Effluent Treatment
- Surface Water Monitoring
- Drinking Water

Technical Specifications

DO Measurements

Measurement Principle	Optical measure by luminescence
Measurement Ranges	0.00 to 20.00 mg/L 0.00 to 20.00 ppm 0-200%
Resolution	0.01
Accuracy	±0.1mg/L ±0.1 ppm ±1%
Response Time	90% of the value in less than 60 seconds
Frequency of Recommended Measure	>5s
Water Move	No necessary move
Temperature Compensation	Via NTC
Stocking Temperature	-10°C to +60°C (14°F to +140°F)
Signal Interface	Modbus RS-485 and SDI-12
Sensor Power Supply	5 to 12 volts
Consumption	Standby 25 µA Average RS-485 (1 measure/second): 4.4 mA Average SDI-12 (1 measure/second): 7.3 mA Current pulse: 100 mA

Sensor

Dimensions	Diameter: 25 mm (0.98"); Length: 146 mm (5.75")
Weight	Stainless steel version 450 g (1.0 lbs.) (sensor + 3 m cable) Titanium version 300 g (0.6 lbs.) (sensor + 3 m cable)
Material	Stainless steel 316L, New: body in Titanium
Maximum Pressure	5 bars (72 psi)
Connection	9 armored connectors, polyurethane jacket, bare wires or waterproof Fisher connector
Protection	IP 68
Accessory	Hydroclean: Anti-fouling system for numerical sensor OPTOD

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Aqualabo DIGISENS Digital Water Quality Sensors

OPTOD Plastic
Optical Dissolved Oxygen

The OPTOD is a luminescent optical dissolved oxygen sensor that can be used with the ODEON handheld display or integrated into an external data logger controller. This newer design is created to offer a lower cost solution that has been reinforced for more durability in the field.

Applications

- Sea Water Monitoring
- Closed containment, Offshore Fish Farming
- Aquaculture Industry

Standard Version

Longer Protected Version

Technical Specifications

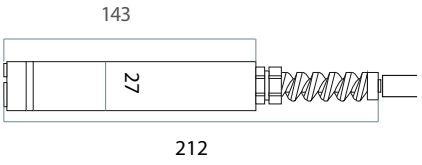
DO Measurements

Measurement Principle	Optical measure by luminescence	
Measurement Ranges	0.00 to 20.00 mg/L 0.00 to 20.00 ppm 0-200%	
Resolution	0.01	
Accuracy	±/- 0.1mg/L ±/- 0.1 ppm ±/- 1%	*Must fully submerge sensor for maximum accuracy
Response Time	0-> 100 % ; T90< 40s 100 -> 0% ; T90< 65 s	
Frequency of Recommended Measure	>5s	
Water Flow	No necessary move	
Temperature Compensation Stocking	Via NTC	
Temperature	-10°C to +60°C (14°F to +140°F)	
Signal Interface	Modbus RS-485 and SDI-12	
Sensor Power Supply	5 to 12 volts	
Consumption	Standby 25 µA Average RS-485 (1 measure/second): 3.2 mA Average SDI-12 (1 measure/second): 6 mA Current pulse: 85 mA	

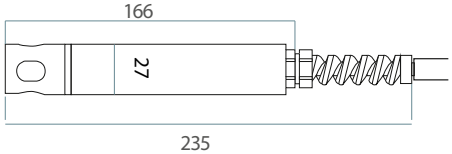
Sensor

Dimensions	Standard: Diameter 27mm; Length: 143mm More Protective Strainer: Diameter 27mm Length 166mm
Weight	300g (sensor and cable 3m)
Material	Black POM C, PVC
Maximum Pressure	5 bars (72 psi)
Connection	5 Bars
Protection	IP 68

Standard strainer



More protective strainer



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Aqualabo DIGISENS Digital Water Quality Sensors

NTU DIGITAL TURBIDITY

This turbidity sensor uses the principle of IR nephelometry technology recognized by ISO method 7027. The sensor is calibrated with standard formazine solution and offers a low-cost, low maintenance, and accurate solution for measuring field and process control NTU concentrations.

Applications

- Urban Wastewater Treatment (inlet/outlet controls)
- Sanitation Network
- Industrial Effluent Treatment
- Surface Water Monitoring
- Drinking Water

Technical Specifications

Measurements

Measurement Principle	Diffusion IR at 90°
Measurement Ranges	5-50 NTU; 5-200 NTU; 5-1000 NTU; 5-4000 NTU; AUTOMATIC RANGE 0 to 4500 mg/L Calibration: Range 0-500 mg/L according to NF EN 872 Range >500 mg/L according to NF T 90 105 2
Resolution	0.01 to 1 NTU – mg/L
Accuracy	<5% of the reading
Working Temperature	0°C to +50°C (32°F to +122°F)
Temperature Measurements	Via NTC
Stocking Temperature	-10°C to +60°C (14°F to +140°F)
Signal Interface	Modbus RS-485 and SDI-12
Maximum Refreshing Time	<1 second
Sensor Power Supply	5 to 12 volts
Electric Consumption	Standby: 40 µA/Average RS-485 (1 measure/second): 820 µA/Average SDI-12 (1 measure/second): 4.2 mA/Current pulse: 500 mA
Consumption	• Standby: 40 µA • RS-485 average (1 measure/sec): 820 µA • SDI-12 average (1 measure/sec): 4.2 mA • Heating time: 100 mS • Current pulse: 500 mA

Sensor

Dimensions	Diameter: 27 mm (1.06"); Length: 170 mm (6.69")
Weight	300 g (0.6 lbs.) (sensor + 3 meter cable)
Material	PVC, DELRIN, Quartz, PMMA, Polyamide
Maximum Pressure	5 bars (72 psi)
Connection	9 armored connectors, polyurethane jacket, bare-wires or waterproof Fisher connector
Degree of Protection	IP 68

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Aqualabo DIGISENS Digital Water Quality Sensors

MES5/VB5 SUSPENDED SOLID, SLUDGE BLANKET, AND TURBIDITY

The MES5/VB5 sensor uses infrared light and 5mm optical path to accurately measure suspended solid concentrations, sludge blanket interface, and turbidity in FAU.

Applications

- Urban influent waste water treatment
- Treatment of industrial effluents
- Sludge monitoring and treatment
- Dredging

Technical Specifications

Measurements

Measurement Principle	Optical IR (870 nm) based on IR absorption
Measurement Ranges	Suspended Solids: 0-50 g/L (MES5 Model) Turbidity: 0-4000 FAU Sludge Blanket: 0-100% (VB5 Model)
Resolution	Suspended Solids: 0.01 g/L (MES5 Model) Turbidity: 0.01 à 1 FAU Sludge Blanket: 0.01 à 0.1% (VB5 Model)
Accuracy	Suspended Solids: <10 % (MES5 Model) Turbidity: ±5% (range 200-4000 FAU) Sludge Blanket: ±2% (VB5 Model)
Response Time	<35 seconds

Temperature Measurements

Measuring Principle	NTC
Working Temperature	-5.00°C to +60.00°C (23°F to 140°F)
Resolution	0.01°
Accuracy	±0.5°
Storage Temperature	-10°C to +60°C (14°F to +140°F)
Degree of Protection	IP 68
Signal Interface	Modbus RS-485 or SDI-12
Refreshment of the Measure	Maximum <1 second
Power Supply	5 to 28 volts
Consumption	• Standby: 25 µA (5 V) • Average RS485 (1 measure/second): 4.5 mA (5V) • Average SDI12 (1 measure/second): 4.5 mA (5V) • Current Pulse: 100 mA during 30 mS • Heating Times: 100 ms

Sensor

Weight	750 g (1.6 lbs.) (sensor)
Material	DELRIN, nickel-plated brass, EPDM
Maximum Pressure	5 bars (72 psi)
Cable/Connections	9 armored connectors, polyurethane jacket, bare-wires or waterproof Fisher connector

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Aqualabo DIGISENS Digital Water Quality Sensors

STACSENSE PROBE
UV Optical Technology

The StacSense Probe uses UV absorption at 25 nm to measure dissolved organic compounds in water. This absorbance is correlated with the concentration of Total Organic Carbon (TOC), Chemical Oxygen Demand (COD), and Biochemical Oxygen Demand (BOD) to provide high-performance measurements without absorption. A reference measurement at 530 nm is used to compensate for the presence of particles in the sample that also absorb UV light to establish turbidity parameters.

Features

- Compatible with Modbus RS-485 or SDI-12 communications
- Internal memory for storing calibration history and water quality data
- Robust 316 Stainless Steel Body

Applications

- Influent and effluent wastewater treatment
- Surface water
- Fish farming or aquaculture (freshwater)
- Drinking water

2 mm StacSense Probe

Technical Specifications

Measurements	
Measure Principle	UV 254 nm absorption
Compensation	Turbidity at 530 nm
Wave Lengths	Internal temperature
Type of Detector	254 nm (turbidity correction at 530 nm)
Light Sources	Silicon Photodiode
Optical Paths	LED UV 254 ±5 nm and 530 ±5 nm
Measurement Frequency	2 and 50 mm
Ingress Protection Rating	IP 68
Max. Immersion Depth	50 meters (164')
Maximum Pressure	5 bars (72 psi)
Operating Temperature	0-40°C (32°F to 104°F)
Storage Temperature	-10°C to +50°C (14°F to +122°F)
pH Range	pH2 to pH12
Dimensions (D x L) (mm)	48 x 371 or 48 x 419 (1.89" x 14.60" or 1.88" x 16.49")
Weight	1600-1800 g (3.5-3.9 lbs.) depending on the optical path (cable not included)
Equipment	Body: Stainless steel 316 (1.4401) Optical windows: Quartz (Corning 7980) Cable: Bare wire with polyurethane sheath Seals: Fluoroelastomer (FPM/FKM)
Cable	9 shielded conductors in 3, 7 and 15 m. Other lengths on request.
Signal Interface	Modbus[1] RTU (RS-485)/SDI12[2,3] (TTL) **1** Sensor mute in Modbus for up to 2s between the measurement request and the possibility to read the measurements or status **2** Using SDI12, measurement result frame after up to 2s instead of the 850ms standard delay **1.2** The sensor responds in Modbus/SDI12 including when on Standby **3** The use and connection of SDI12 bus may increase the standby power consumption* up to 40uA depending the level of the line (high or low). The consumption is not increased if the SDI12 line is disconnected or released to 0V (Modbus RTU only).
Sensor Power Supply	5.4V[1.2] at 26V[3] DC **1** Absolute minimum 5.2V with 1 m of cable **2** Minimum voltage subject to cable length-related losses **3** 28.0V absolute maximum

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StacSense Probe Technical Specifications *(continued)*

Measurements

Typical Consumption at 5.4V	Automatic standby less than 10 µA (54 µW) Maximum peak current: 600 mA (2 ms) Maximum current during the measurement: 100 mA (540 mW) Average current during the measurement: 70 mA (378 mW) Average current (1 measurement/2s): 35 mA (189 mW) Energy for 1 measurement (1.5 s): 158 µWh
Typical Consumption at 12V	Automatic standby less than 10 µA (120 µW) Maximum peak current: 400 mA (1.5 ms) Maximum current during the measurement: 70 mA (840 mW) Average current during the measurement: 60 mA (720 mW) Average current (1 measurement/2s): 30 mA (360 mW) Energy for 1 measurement (1.5 s): 300 µWh
Typical Consumption at 24V	Automatic standby less than 10 µA (240 µW) Maximum peak current: 300 mA (1 ms) Maximum current during the measurement: 65 mA (1560 mW) Average current during the measurement: 50 mA (1200 mW) Average current (1 measurement/2s): 25 mA (600 mW) Energy for 1 measurement (1.5 s): 500 µWh
EMC Compliance	NF EN 61326-1: 2013-05 RS-485 Modbus RTU & SDI12 **1** The sensor is qualified for standard use with a dedicated cable including power supply and communication lines specific to the sensor network. **2** When connected to a DC power supply network separated from the RS485 communication lines; additional shielding must be used on the system to protect the sensors from shock waves from an impact.
Warranty	2 years

Sensors

Op.T	Parameters	Measurement Range*	Units	Detection Limit	Quantification Limit	Accuracy**	Application
2 mm (0.07")	SEC_{254}	0-750	Abs/m	1.7	5.0	1 or ±3%	Wastewater
	CODeq	0-1300	mg/L	3.0	9.0	2 or ±3%	
	BODeq	0-350	mg/L	1.0	3.0	1 or ±3%	
	TOCeq	0-500	mg/L	1.5	4.0	1 or ±3%	
	Turbidity eq	0-500	FAU	1.5	5.0	5 or ±5%	
50 mm (1.96")	SEC_{254}	0-30	Abs/m	0.20	0.3	0.1 or ±3%	Drinking Water
	CODeq	0-50	mg/L	0.15	0.6	0.2 or ±3%	
	BODeq	0-15	mg/L	0.10	0.2	0.1 or ±3%	
	TOCeq	0-20	mg/L	0.10	0.2	0.1 or ±3%	
	Turbidity eq	0-40	FAU	0.40	1.2	1.0 or ±7%	

Performance levels obtained under laboratory conditions (controlled temperature and stirring, aqueous solutions of KHP)

*Optical path 2 and 50mm, Linearity: >0.99 on the given range.

**Highest value

50 mm StacSense Probe

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ODEON HANDHELD DEVICE

The ODEON Handheld provides real-time water quality measurements collected from DIGISENS sensors. The instrument features a large graphical display and ergonomic key pad for easy navigation, calibration, and logging of fluid parameters being monitored.

Features

- 8 MB memory capacity – up to 100,000 records
- IP 67 Rated, shock resistant and waterproof
- Auto recognition and self-diagnostics of sensors installed
- 4" backlit display

Accessories and Options

- Transfer and data analysis software
- Rechargeable version with 220 V charger
- External 12 V power cable
- Y cable for 2 digital sensors on one input
- Sensor coupling accessories
- Reels up to 20m and 100m (65' – 328')
- Enhanced suitcase equipped with a 12 V battery
- Cable length 1 m/3 m/7 m/15 m (other lengths available on request)
- 125 mL standardized calibration solutions

Technical Specifications

Memory	8 MB (up to more than 100,000 records)
Power Supply	4 x 1.5 V AA Options: • Rechargeable Battery • Power – External 12 V
Battery Life	145-190 hours depending on the configuration
Communication	USB
Housing	PC/ABS
Weight	400 g (0.8 lbs.)
Dimensions	196.5 x 121 x 46 mm (7.73" x 4.76" x 1.81")
Protection	IP 67
Operating Temperature, Humidity	-25 to +50°C (-13°F to 50°F), 0-70%
Storage Temperature, Humidity	-25 to +65°C (-13°F to 149°F), 0-80%
Display	LCD 4 «240 x 320 pixel display with adjustable backlighting
Connectors	• 1 connector: ODEON OPEN ONE • 2 connectors: ODEON OPEN X

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