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## **YSI Digital SensoLyt® pH/ ORP Sensor for the IQ Sensor-Net System**



The SensoLyt® is a rugged, online probe for measuring pH and ORP concentrations using a combination electrode for the most accurate wastewater process monitoring.

The SensoLyt® probe is used within the IQ SensorNet system and can therefore be networked with other probes and parameters for a complete process monitoring and control system. It can measure and display pH or ORP. A built-in pre-amplifier and temperature sensor with SensCheck function helps to monitor the sensor.

The SensoLyt® is the ideal probe for quantitative measurement of pH/ ORP in a wastewater treatment plant. Various SensoLyt® electrodes (SEA/DWA/ECA/PtA) meet the needs of different applications.

### Parameters:

pH  
ORP

- SensCheck function monitors sensors
- Electrodes are protected
- Electrodes can be removed and calibrated in the lab or in the field
- Provides pre-amplification of the electrode signal
- Digital sensor stores calibration value
- Automatic temperature compensation
- Electrodes can easily be replaced without tools
- 2-year warranty on the probe, 6 months on electrodes



The SensoLyt® sensor provides continuous data to help with operational improvement decisions.

## SensoLyt® 700 IQ Technical Specifications

Electrode Type	Measuring Range	Accuracy	Application
ECA	2 to 12 pH units	+/- 0.2 pH	standard wastewater
SEA	2 to 12 pH units	+/- 0.2 pH	seawater
SEA-HP	4 to 12 pH units	+/- 0.2 pH	seawater/ high pressure
DWA	0 to 14 pH units	+/- 0.2 pH	drinking water
PtA	+/-2000 mV	+/- 20mV	
Temperature	Integrated NTC -5 to 60 °C (23 to 140 °F)	+/- 0.5° K	
Operating & Compensation Range Temperature	0 to 60 °C (32 to 140 °F)		
Warranty	2 years on probe, 6 months on electrode		
Dimensions	508 Lx 40 D mm (20 Lx 1.57 D in); SW design: 515 Lx 59.5 D mm (20.78 Lx 2.34 D in)		
Certifications	CE, cETLus		
Protection Class	Sensor with SACIQ cable connected: IP68		
Operating Conditions	Overpressure/ Temperature		
ECA	6 bar (87 psi)/ 68 °F (20 °C); 1 bar (14.5 psi)/ 140 °F (60 °C)		
SEA	10 bar (145 psi)/ 68 °F (20 °C); 1 bar (14.5 psi)/ 140 °F (60 °C)		
SEA-HP	10 bar (145 psi)/ 140 °F (60 °C)		
DWA	6 bar (87 psi)/ 68 °F (20 °C); 1 bar (14.5 psi)/ 140 °F (60 °C)		
PtA	10 bar (145 psi)/ 68 °F (20 °C); 1 bar (14.5 psi)/ 140 °F (60 °C)		
Lightning/Voltage Protection	Yes		
Electrical	Power Consumption: 0.2 W, Two wire shielded IQ cable provides power and communication		
Materials	Housing: V4A Stainless Steel 1.4571 (SW version POM (Polyoxmethylen)), protection cap PVC; sensor holder POM (for electrode material see product manual)		

## SensoLyt® Plus 700 IQ Sensor Ordering Information

Name	Item #	Description
SensoLyt 700 IQ	109 170Y	Robust digital pH/ ORP probe for combination electrodes, SensoLyt® SEA, SEA-HP, DWA, ECA, PtA. Order pH or ORP electrodes and SACIQ cable separately
SensoLyt 700 IQ SW	109 171Y	Robust digital pH/ ORP probe with amplifier for use in salt water applications. Order pH or ORP electrodes separately
SensoLyt SEA	109 115Y	pH electrode ideal for highly polluted wastewater, emulsions and suspensions, media containing sulfides and proteins for use with the IQ SensorNet system
SensoLyt SEA-HP	109 118Y	pH electrode ideal for high pressure and temperature conditions for use with the IQ SensorNet system
SensoLyt DWA	109 119Y	pH electrode with built in reference, SensoLyt 700 IQ, ideal for drinking water or low conductivity applications
SensoLyt ECA	109 117Y	pH electrode ideal for general wastewater applications
SensoLyt PtA	109 125Y	ORP electrode ideal for municipal and industrial wastewater, emulsions and suspensions, media containing sulfides and proteins
SACIQ-1.5	480 040Y	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length 4.9 ft (1.5 m)
SACIQ-7.0	480 042Y	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length 23 ft (7 m)
SACIQ-15.0	480 044Y	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length 49 ft (15 m)
SACIQ-SO	480 041VY	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length special order up to 330 ft (100 m)
SACIQ-20.0 SW	480 045Y	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length 65 ft (20 m) with screwable SACIQ-Plug
SACIQ-25.0 SW	480 066Y	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length 82 ft (25 m) with screwable SACIQ-Plug
SACIQ-50.0 SW	480 060Y	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length 162 ft (50 m) with screwable SACIQ-Plug
SACIQ-75.0 SW	480 067Y	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length 243 ft (75 m) with screwable SACIQ-Plug
SACIQ-100.0 SW	480 062Y	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length 330 ft (100 m) with screwable SACIQ-Plug
SACIQ-SO SW	480 064VY	Sensor cable for all IQ SensorNet sensors, IP-68 waterproof connection; cable length special order up to 330 ft (100 m) with screwable SACIQ-Plug
SACIQ-Plug	480 065Y	Screwable plug for all SACIQ sensor cables for IQ sensors

Visit [YSI.com/IQ](http://YSI.com/IQ) for additional information on the entire IQ SensorNet system

### YSI

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