

SensoLyt® 700 IQ

PH & ORP SENSOR FOR IQ SENSORNET

Calibrations are automatically stored in the sensor, allowing for easy calibration in the lab or field before being deployed directly in the process.

Reliable pH/ORP monitoring for process control

The SensoLyt[®] is a rugged, online probe for measuring pH or ORP concentrations using a combination electrode for the most accurate wastewater process monitoring. Monitoring pH/ORP can provide early warning for changes in wastewater loading, increase dosing efficiency or ensure that the plant's effluent stays compliant with EPA regulations.



Smart Technology

The SensCheck function monitors the sensor condition to ensure reliable data.



Convenient Calibration

Calibrations are stored in the sensor and YSI pH buffers are automatically recognized.



Simple Maintenance

Easily replace electrodes without any tools or solutions.



Protected Investment

Backed by a 2-year sensor warranty and 6-month electrode warranty.



a xylem brand

SensoLyt Sensor Options

Sensor options are available for saltwater applications and Class I, Div 2 hazardous locations.

SensoLyt 700 IQ pH/ORP (dependent on electrode used)

SensoLyt 700 IQ SW Saltwater pH/ORP (dependent on electrode used)

SensoLyt 700 IQ H

pH/ORP for Class I, Division 2 (CID2) hazardous locations (dependent on electrode used; requires MIQ/BB1 [207 001Y] module)

Electrode Options

SEA

pH measurements in moderately or heavily loaded wastewater (2 to 12 pH)

ECA

pH measurements in municipal and typically charged wastewater (2 to 12 pH)

SEA-HP

pH measurements in moderately or heavily loaded wastewater under increased pressure and temperature conditions (4 to 12 pH)

DWA

pH measurements in drinking water (0 to 14 pH)

PtA

ORP measurements in moderately or heavily loaded wastewater (-2000 to 2000 mV)

SensoLyt[®] 700 IQ General Specifications

Measurement MethodPotentiometric measurement using a combination electrodeTemperature ConditionsOperating Temperature: 32 to 140 °F (0 to 60 °C) Storage Temperature: 32 to 140 °F (0 to 60 °C) Storage Temperature: 32 to 140 °F (0 to 60 °C) Storage Temperature: 32 to 140 °F (0 to 60 °C)Calibration Capability0.point and 1-point calibration optionsMin Flow RateKone; no flow requirementMaximum Pressure6 to 10 bar (87 to 145 psi) depending on electrodeSignal OutputOgitalUightning ProtectionYesPower Consumption0.2 WElectrical ConnectionsChi100.1, CAN/CSA C22.2 # 6100.1, UL 3111.1CertificationsSensolyt 700 IQ H: Conforms to UL 12120, CAN/CSA C22.2 # 213; Class Division 2, Groups A, B, C, D, T6; Class I Zone 2, Groups II, CfaMaterialHousing: Sensolyt 700 IQ/700 IG H + VA steel 1.4571; Sensolyt 700 IQ SW - POM (Polyoxmethylene) Electrode Holder: POM Sensolyt 700 IQ SW - 2028 Lx 2.36 D in (515 Lx 60 D mm)Protection Class2.000 Lx 1.57 D in (508 Lx 40 D mm) Sensolyt 700 IQ SW - 2028 Lx 2.36 D in (515 Lx 60 D mm)Weight2.years sensor; 6 months electrodeVarranty2 years sensor; 6 months electrodeSensolyt 700 IQ SW - 20.28 Lx 2.36 D in (515 Lx 60 D mm) Sensolyt 700 IQ SW - 20.28 Lx 2.36 D in (515 Lx 60 D mm)Sensolyt 700 IQ SW - 20.28 Lx 2.36 D in (515 Lx 60 D mm) Sensolyt 700 IQ SW - 20.28 Lx 2.36 D in (515 Lx 60 D mm)VerightSensolyt 700 IQ SW - 20.08 LX 2.36 D in (515 Lx 60 D mm)Sensolyt 700 IQ SW - 20.08 LX 2.36 D in (515 Lx 60 D mm)Sensolyt 700 IQ SW - 20.08 LX 2.36 D in (515 Lx 60 D mm)Sensolyt 700 IQ	SensoLyt® 700 1Q Ger	ieral Specifications
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Calibration Capability2-point and 1-point calibration optionsMin Flow RateNone; no flow requirementMaximum Pressure6 to 10 bar (87 to 145 psi) depending on electrodeSignal OutputDigitalLightning ProtectionYesPower Consumption0.2 WElectrical Connections2-wire shield cable with quick sensor connectionConformance/EN 61010-1, CAN/CSA C22.2 # 61010.1, UL 3111-1Certifications2-wire shield cable with quick sensor connectionConformance/EN 61010-1, CAN/CSA C22.2 # 61010.1, UL 3111-1Certifications1.Division 2, Groups A, B, C, D, T6; Class I Zone 2, Groups IIC T6MaterialHousing: Sensolyt 700 IQ/700 IQ H - VA steel 1.4571; Sensolyt 700 IQ SW - POM (Polyoxmethylene) Electrode Holder: POM Sensolyt 700 IQ SW - POM (Polyoxmethylene) Electrode Holder: POM Sensolyt 700 IQ SW - 20.28 L x 2.36 D in (515 L x 60 D mm) Sensolyt 700 IQ SW: 20.28 L x 2.36 D in (515 L x 60 D mm) Sensolyt 700 IQ SW: 4.00 Ibs. (1.8 kg)Warranty2 years sensor; 6 months electrodeSensolyt 700 IQ SW: 4.00 Ibs. (1.8 kg)Warranty2 years sensor; 6 months electrodeSensolyt 700 IQ SW: 4.00 Ibs. (1.8 kg)PH Measuring RangeSEA: 2 to 12 pH SEA-HP: 4 to 12 pH SEA-HP: 4 to 12 pH SEA-HP: 4 to 14 pHPH Resolution0.01 pHORP Measuring RangeptA: -2000 to 2000 mV (dependent on electrode)ORP Measuring RangeptA: -2000 to 2000 mV (dependent on electrode)ORP Measuring RangeptA: -2000 to 2000 mV (dependent on electrode)ORP Measuring RangeptA: -2000 to 2000 mV (dependent on electrod	Temperature Conditions	Operating Temperature: 32 to 140 °F (0 to 60 °C)
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ORP Measuring Range ptA: -2000 to 2000 mV (dependent on electrode) ORP Resolution 1 mV Temperature Sensor Measurement: 23 to 140 °F (-5 to 60 °C) Compensation: 32 to 140 °F (0 to 60 °C) Accuracy: ± 0.5 K		DWA: 0 to 14 pH
ORP Resolution 1 mV Temperature Sensor Measurement: 23 to 140 °F (-5 to 60 °C) Compensation: 32 to 140 °F (0 to 60 °C) Accuracy: ± 0.5 K	pH Resolution	0.01 pH
Temperature SensorMeasurement: 23 to 140 °F (-5 to 60 °C) Compensation: 32 to 140 °F (0 to 60 °C) Accuracy: ± 0.5 K	ORP Measuring Range	ptA: -2000 to 2000 mV (dependent on electrode)
Compensation: 32 to 140 °F (0 to 60 °C) Accuracy: ± 0.5 K	ORP Resolution	1 mV
Accuracy: ± 0.5 K	Temperature Sensor	Measurement: 23 to 140 °F (-5 to 60 °C)
		Compensation: 32 to 140 °F (0 to 60 °C)
Resolution: 0.1 K		Accuracy: ± 0.5 K
		Resolution: 0.1 K

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