

ST-710 Series Inline pH/ORP Sensors

The Pyxis ST-700 series of pH and pH/ORP combined probes are designed to simplify installation, calibration, and in-use operation in industrial waste water and cooling water applications. These probes have an embedded 4~20mA transmitter.

The oversized platinum disk ORP and the flat pH bubble sensing elements increase resistance to contamination. The double salt bridge design with large junction capacity also ensures a long sensor life with minimum maintenance.



ST-712 pH+ORP Sensor



ST-710 pH Sensor



ST-711 ORP Sensor

Typical Applications

Industrial waste water treatment, cooling water treatment.

Features

- Dual embedded transmitters – 4~20mA and RS-485 supporting MODBUS, eliminating the need for pre-amplifier and enhanced robustness when the controller is away from the sample point
- Calibration, data recording, and diagnosis can be carried with a PC or smartphone via a Bluetooth/USB adapter
- Tolerant to frozen conditions during shipment or storage for short periods
- Large junction capacity (compared to replaceable electrode design) leading to longer service life and less maintenance
- Stainless solution grounding point on sensor to stay away from ground loop problems

Specifications

Items	Specification
pH	0~14 range with ATC, ±0.01 pH unit precision
ORP	±1500 mV range, ±1 mV precision
Response Time	95% within 5 seconds
Power Supply	12-36 VDC, ~1W
Output	4~20 mA isolated, RS-485 isolated
Connector	Custom IP67 water proof connector, 1.5 m (4.5 ft)
Operation Pressure	Up to 0.7 MPa (100 PSI) at 65°C (149 °F)
Installation	Custom ¾-inch tee with NPT thread
Storage temperature	-20 °C ~ 60 °C (-4~140 °F)
Operational temperature	0° C ~ 40 °C (32~104 °F)
Typical service life	2 years
Housing material	CPVC
Dimension	172 mm long, 36.6 mm diameter (6.8 inch long, 1.44 inch diameter)
Weight	170 g (0.37 lbs)
Regulation	CE

*With Pyxis' continuous improvement policy, this specification is subject to change without notice.

Order Information

ST-710	Industrial inline pH sensor	P/N: 53001
ST-711	Industrial inline ORP sensor	P/N: 53002
ST-712	Industrial inline pH+ORP sensor	P/N: 53003

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