HI2004-18 Series • HI2014-18 Series
HI2004-28 Series • HI2014-28 Series

ORP and Temperature Industrial Smart Probes

dedicated to the HI510 Universal Process Controller

These smart industrial ORP probes are used for the measurement of the ratio of oxidized to reduced species in the process. Together with the Hanna Instruments HI510, they can monitor and control disinfection chemicals or follow and control a critical oxidation or reduction reaction.

- HI2004-18 and HI2014-18 platinum sensor series, designed to provide the best response over a wide range of applications
- HI2004-28 and HI2014-28 gold sensor series, designed for oxidative processes

To achieve accurate results, the correct combination of reference system and junction are important. Hanna Instruments offers ORP sensors with unique reference junctions to ensure dependable measurements, even in dirty samples. An integral temperature sensor measures water temperature.

The probes can be installed directly in-line, immersed in a tank, or in a flow cell. Several extension cable lengths are available to cover up to a 50 meter distance between probe and controller.

The probes are suited for continuous measurement of ORP required for process control such as monitoring and / or controlling oxidizers and reducing agents, water treatment and monitoring, industrial effluent treatment, and swimming pools

- Rugged, chemically-resistant PVDF (Kynar®) body
- 3/4" NPT external thread for mounting
- 6 bar (87 psi) maximum pressure
- Built-in temperature sensor for measurement
- Digital probe stores model, firmware, serial number, and calibration information

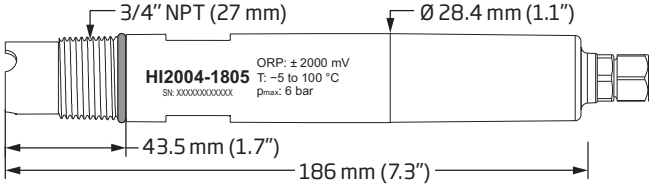
PTFE junction: Minimizing the potential for clogging and chemically resistant, PTFE is ideal for samples with high content of suspended solids or for high-pressure installation.

Ceramic junction: Porous chemically resistant plug that connects the reference electrode to the process electrically.

Platinum sensor: Used in reducing processes such as chlorine dosing in pools and spas or chromate reduction.

Gold sensor: Used in oxidative processes such as cyanide oxidation in the mining industry.

Dimensions



Ordering Information

Each Oxidation-Reduction Potential (ORP) and temperature probe is supplied with: probe quality certificate and Instruction manual.

HI20 x x – y 8 z z

Choose your configuration:		
xx	**04**	PolyTetraFluoro-Ethylene (PTFE) junction
	14	Ceramic junction
y	**1**	Platinum sensor -5 to 100 °C (23 to 212 °F) Temperature measurement: 0 to 100 °C (32 to 212 °F) ± 2000 mV
	2	Gold sensor -5 to 100 °C (23 to 212 °F) Temperature measurement: 0 to 100 °C (32 to 212 °F) ± 2000 mV
8	Smart probe, with RS485 connection	
zz	00, 05, 10, 15, 25, 50 attached cable length (meters) The HI20X4-Y800 models are supplied without cable. See Accessories section for extension cable ordering codes.	

Specifications	HI2004-1805 - Configured Example
Range	-2000 to +2000 mV
Accuracy	±2 mV
Temperature	-5.0 to 100.0 °C (23.0 to 212.0 °F)
Temperature accuracy	± 0.5 °C / 1.0 °F
Body	PVDF
Junction	PTFE
Sensor	Platinum
Maximum pressure	6 bar
Threaded connection	3/4" NPT external thread for insertion mounting
Cable length	5 m (16'5")

See compatible probe extension cables on page page 15.56, see addtional mounting accessories on page 15.25, see probe holders on page 15.126 and 15.122.