





## **Process pH and ORP electrodes**

Hanna's latest additions to the range of industrial combination pH and ORP electrodes incorporate over 20 years of electrode manufacturing experience. These advanced electrodes feature proven flat tip technology for superior in line performance. The flat tip virtually eliminates deposits that can foul the electrode significantly reducing necessary maintenance.

Each electrode has a built-in potential matching pin. With this feature, electrode fouling due to ground loop current through the reference of the sensor is a thing of the past. These electrodes have been engineered with a replaceable battery to power the amplifier. This feature adds life to the electrode and aids in troubleshooting. Some electrode models are available with a built-in 3-wire Pt 100 sensor allowing the user to do away with any additional probe or thermometer for temperature compensation. For those applications that have proven particularly hostile to glass sensors, Hanna Instruments has developed four types of specialized glass. First is an extremely durable sensor glass for general purpose industrial use. This glass can withstand sudden impacts and extreme mechanical stress. The remaining types of electrode glass allow continuous monitoring in highly acidic solutions containing fluoride ions, as well as high or low temperature process streams significantly increasing the useful life of the electrode.

1.800.561.8187



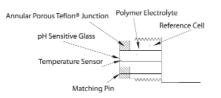
## information@itm.com

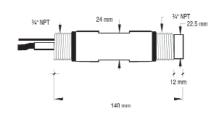
		Re	eference S	ystem						Lead		
					Stan	dard glas	s type pH	sensors				
Part #	Range	Junction	Туре	Electrolyte	M.Pin	ATC	AmpHel	T <sup>o</sup> Range	Pressure	Connector	Cable	Body
HI 6100405	0-13	Double	Teflon®	Polymer	Yes	-	Yes	-5 to 80°C	6 bars (87 PSI)	BNC	5 m	PVDF
HI 6101405	0-13	Double	Teflon®	Polymer	Yes	Pt100	Yes	-5 to 80°C	6 bars (87 PSI)	BNC+ Lead	5 m	PVDF
HI 1006-2005	0-13	Double	Teflon®	Polymer	Yes	-	-	-5 to 80°C	6 bars (87 PSI)	BNC	5 m	PVDF
					Low	T <sup>,</sup> glass	type pH s	ensors				
Part #	Range	Junction	Туре	Electrolyte	M.Pin	ATC	AmpHel	T <sup>o</sup> Range	Pressure	Connector	Cable	Body
HI 6100605	0-12	Double	Teflon®	Polymer	Yes	-	Yes	-10 to 80°C	6 bars (87 PSI)	BNC	5 m	PVDF
HI 6101605	0-12	Double	Teflon®	Polymer	Yes	Pt100	Yes	-10 to 80°C	6 bars (87 PSI)	BNC+ Lead	5 m	PVDF
HI 1006-1005	0-12	Double	Teflon®	Polymer	Yes	-	-	-10 to 80°C	6 bars (87 PSI)	BNC	5 m	PVDF
					High	T <sup>,</sup> glass	type pH s	ensors				
Part #	Range	Junction	Туре	Electrolyte	M.Pin	ATC	AmpHel	T° Range	Pressure	Connector	Cable	Body
HI 6100805	0-14	Double	Teflon®	Polymer	Yes	-	Yes	0 to 100°C	6 bars (87 PSI)	BNC	5 m	PVDF
HI 6101805	0-14	Double	Teflon®	Polymer	Yes	Pt100	Yes	0 to 100°C	6 bars (87 PSI)	BNC+ Lead	5 m	PVDF
HI 1006-3005	0-14	Double	Teflon®	Polymer	Yes	-	-	0 to 100°C	6 bars (87 PSI)	BNC	5 m	PVDF
					HF re	esistant (	glass type	pH sensors				
Part #	Range	Junction	Туре	Electrolyte	M.Pin	ATC	AmpHel	T° Range	Pressure	Connector	Cable	Body
HI 6100205	0-10	Double	Teflon®	Polymer	Yes	-	Yes	-5 to 60°C	6 bars (87 PSI)	BNC	5 m	PVDF
HI 6101205	0-10	Double	Teflon®	Polymer	Yes	Pt100	Yes	-5 to 60°C	6 bars (87 PSI)	BNC+ Lead	5 m	PVDF
HI 1006-4005	0-10	Double	Teflon®	Polymer	Yes	-	-	-5 to 60°C	6 bars (87 PSI)	BNC	5 m	PVDF

pH ELECTRODES FOR ACID SAMPLES WITH FLUORIDE IONS (F- max 2 g/L, < 60°C, > 2 pH)\* \*CONDITIONS LISTED ARE TRUE IN THE PRESENCE OF FLUORIDE

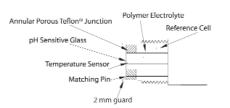
		R	eference S	ystem						Lead		
					Platir	ium typ	e ORP sen	sors				
Part #	Range	Junction	Туре	Electrolyte	M.Pin	ATC	AmpHel	T° Range	Pressure	Connector	Cable	Body
HI 6200405	±2000 mV	Double	Teflon®	Polymer	Yes	-	Yes	-5 to 100°C	6 bars (87 PSI)	BNC	5 m	PVDF
HI 2004-1005	±2000 mV	Double	Teflon®	Polymer	Yes	-	-	-5 to 100°C	6 bars (87 PSI)	BNC	5 m	PVDF
					Gold	type OR	P sensors					
Part #	Range	Junction	Туре	Electrolyte	M.Pin	ATC	AmpHel	T° Range	Pressure	Connector	Cable	Body
HI 6200505	±2000 mV	Double	Teflon®	Polymer	Yes	-	Yes	-5 to 100°C	6 bars (87 PSI)	BNC	5 m	PVDF
HI 2004-2005	±2000 mV	Double	Teflon®	Polymer	Yes	-	-	-5 to 100°C	6 bars (87 PSI)	BNC	5 m	PVDF

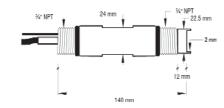
Flat tip probe diagram								
HI 6100405	HI 6100605	HI 6100205						
HI 6101405	HI 6101605	HI 6101205						





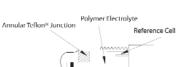
Flat tip probe (with guard) diagram							
HI 1006-2005	HI 6100805	HI 1006-3005					
HI 1006-1005	HI 6101805	HI 1006-4005					





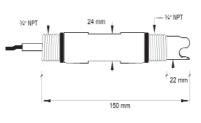






Matching Pin

Gold Se





information@itm.com

## 1.800.561.8187

P-L/indprobe

