

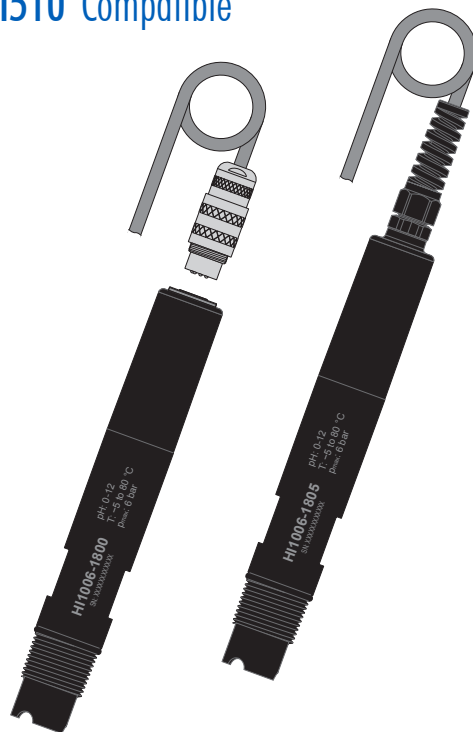
HI1006-18 • HI1016-18

HI1006-38 • HI1016-38

HI1006-48 • HI1016-48

pH and Temperature Industrial Smart Probes

HI510 Compatible



Hanna[®] is committed to developing and deploying digital solutions with a positive impact on the environment and climate.



Please scan the QR code or follow the link to download the pH smart series user manual.

<https://manuals.hannainst.com/Hi1006-18>



Thank you for choosing Hanna Instruments!

Hanna® industrial pH probes are intended for industrial process control when paired with the HI510 Universal Process Controller. Housed in a rugged, chemically resistant PVDF body, **Smart technology** enables probe optimization for different temperature applications and ranges. The probe manages temperature compensation and buffer calibration measurement settings. Data captured on the probe is automatically updated on the controller via digital input.

Application

Suitable for a wide range of industrial, municipal, and chemical process applications (batch or continuous).

HI510 Controller Supported Probe Series and Configurations

HI10 **X X - Y 8 Z Z** **pH & Temperature**

XX	06	PTFE junction	
	16	Ceramic junction	
Y	Glass sensor		pH range
	1	Low temperature	0.00 to 12.00 pH
	3	High temperature	0.00 to 14.00 pH
	4	Fluoride resistant	0.00 to 10.00 pH
		Temperature range	
		0.00 to 12.00 °C (23.0 to 176.0 °F)	
		0.00 to 14.00 °C (32.0 to 212.0 °F)	
		0.00 to 60.0 °C (23.0 to 140.0 °F)	

HI20 **X X - Y 8 Z Z** **ORP & Temperature**

XX	04	PTFE junction	
	14	Ceramic junction	
Y	Sensor type		mV range
	1	Platinum	± 2000 mV
	2	Gold	± 2000 mV
			Temperature range
		−5.0 to 100.0 °C (23.0 to 212.0 °F)	

HI7630 **- Y 8 Z Z** **Conductivity & Temperature**

Y	2	Two-electrode cell conductivity, AISI 316 stainless steel cell constant k ≈ 0.1/cm	EC	0.000 μS/cm to 30.00 mS/cm
			TDS	0.000 mg/L to 15.00 g/L (TDS factor 0.5)
			RES	34 Ω • cm to 99.99 MΩ • cm
			Temperature	0.0 to 50.0 °C (32.0 to 122.0 °F)
Y	4	Four-ring conductivity, platinum on glass, cell constant k ≈ 1.0/cm	EC	0.0 μS/cm to 999.9 mS/cm
			TDS	0.0 mg/L to 400.0 g/L (TDS factor 0.5)
			RES	1.00 Ω • cm to 9.99 MΩ • cm
			Seawater Salinity	400.0 %NaCl, 42 psu, 80 ppt
		Temperature	0.0 to 100.0 °C (32.0 to 212.0 °F)	

HI7640 **- 1 8 Z Z** **Galvanic Dissolved Oxygen & Temperature**

Galvanic sensor	Concentration	0.00 to 50.00 mg/L (ppm)
	Saturation	0.0 to 500.0 %
	Temperature	−5.0 to 50.0 °C (23.0 to 122.0 °F)

HI7640 **- 5 8 Z Z** **Optical Dissolved Oxygen & Temperature**

Optical sensor	Concentration	0.00 to 50.00 mg/L (ppm)
	Saturation	0.0 to 500.0 %
	Temperature	−5.0 to 50.0 °C (23.0 to 122.0 °F)

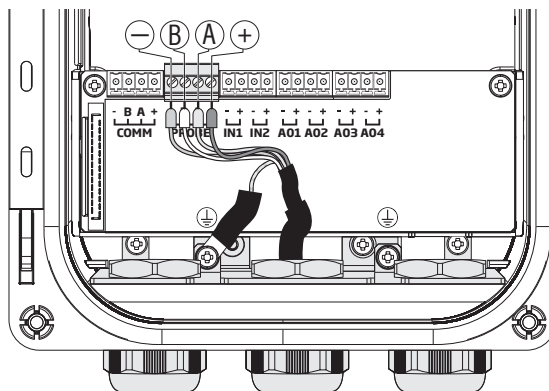
8	Smart probe, with RS485 connection
ZZ	00 supplied with DIN connector (without cable)
	05, 10, 15, 25, 50 fixed cable length (in meters)

Please scan the QR code or follow the link to download the HI510 controller user manual.
<https://manuals.hannainst.com/hi510>



Probe wiring

1. Disconnect the controller from power. Run the probe cable through the conduit opening.
2. Connect the probe leads to the removable terminal connector marked PROBE. Follow lead markings (−/+) to ensure correct wiring position for output leads.
3. Carefully put the wired terminal connector into place on the board.
4. Position excess cable through the cable gland before tightening the nut.
5. Remove the ground screw and hardware located below the PROBE connector. Attach the ground lead (⊕).

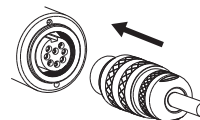


Probe cabling color code

Marking	Attached Cable	Patch Cable	Functionality
−	GREEN	BLACK	0 V
B	WHITE	WHITE	RS485 D −
A	YELLOW	BLUE	RS485 D +
+	BROWN	RED	5 V
⊕	GREEN-YELLOW	GREEN-YELLOW	PROTECTIVE GROUND

Probe connection

Align the pins and key then push the plug into the socket. Rotate the collar to lock in place.



Patch cables may be purchased separately to connect between the probe and controller up to 50 meters (164 ft).

All Hanna instruments conform to the CE European Directives and our production facilities are ISO 9001 certified. Probes are warranted for six months against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. For technical information e-mail us at tech@hannainst.com. Visit www.hannainst.com for more information about Hanna Instruments and our products.



Please retain for future use.

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