HI7630-28

Conductivity and Temperature Industrial Smart Probes

HI7630-28 is a conductivity and temperature probe designed to be paired with the HI510 Universal Process Controller.

This two-electrode probe is recommended for a wide range of water applications such as pure and ultrapure water.

An integral temperature sensor measures the process temperature and adjusts the measured conductivity to a reference temperature by applying specialized compensation standards:

- Linear: appropriate when it is assumed that the temperature coefficient of variation has the same value for all measurement temperatures.
- Standard: appropriate for high-purity water measurements and documented in ASTM Standard D5391-14. This setting should be used for resistivity measurements.
- Natural: appropriate for natural ground, well, or surface water (or water with similar composition) in accordance with ISO7888 standard.

The result is reliable electrolytic conductivity (EC), TDS (Total Dissolved Solids), resistivity, or Seawater Salinity in percent, psu, or ppt units.

This conductivity probe can be installed directly in-line, immersed in a tank, or in a flow cell, and is suited for continuous measurement of conductivity and associated parameters required in applications such as water treatment, drinking water, feed water condensate, or other clean water applications as well as sea water and surface-water monitoring.

The probe is available with an integral connector that permits connections after installation.

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

- Rugged, chemically-resistant PVDF body
- 3/4" NPT external thread for mounting
- 6 bar (87 psi) maximum pressure at 25 °C (77 °F)
- Digital probe stores model, firmware, serial number, and calibration information

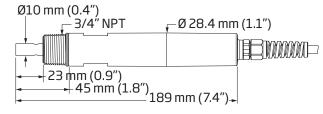
Two-electrode probes
can be calibrated
using a standard with
a value close to the
measurement value.

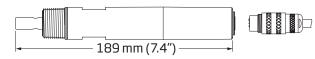


Two-electrode

Dimensions

630-2805





Specifications

example HI7630-28zz

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EC	Range	0.000 µS/cm to 30.00 mS/cm*			
	Resolution**	0.001, 0.01, 0.1 µS/cm; 0.001,			
		0.01 mS/cm			
	Accuracy	±2 % of reading or ±0.050 μS/cm			
		whichever is greater			
	Calibration	Standard: Automatic, two-point			
		with standard solution			
		Process: Single point			
TDS	Range	0.000 mg/L to 15.00 g/L (TDS			
		factor 0.5)*			
	Resolution**	0.001, 0.01, 0.1 mg/L;			
		0.001, 0.01, 0.1 g/L			
	Accuracy	±2% of reading or ±0.025 mg/L, whichever is greater			
	Calibration Standard: Automatic, two-				
	cambración	with standard solution			
		Process: Single point			
Resistivity	Range	34 Ω•cm to 99.99 MΩ•cm*			
	Resolution** 1Ω•cm; 0.01, 0.1, 1 kΩ•cm;				
	0.01 MΩ•cm				
Temperature	Range	0.0 to 50.0 °C (32.0 to 122.0 °F)			
	Accuracy	±0.5 °C; ±1.0 °F			
	Calibration	Single point offset (controller			
		setting)			
Temperature	Linear, Natural, Standard, None				
Compensation Mode					
Temperature Source	Automatic (from probe)				
	Manual				
Body	PVDF				
Sensor	Туре	Two-electrode, concentric			
		cylinder design			
	Material	AISI 316 stainless steel			
	Insulator	PVDF/Silicone			
	Diameter	10 mm (0.4")			
	Insertion length	23 mm (0.9")			
Maximum Pressure	6 bar (87 psi)				
Threaded Connection	3/4" NPT external thread for insertion mounting				
Protection Rating	IP68				
Cable Length	zz, see Ordering	Information			
* Absolute values (not temperati					

* Absolute values (not temperature c ** Automatic ranging

Ordering Information

Each probe is supplied with quick reference guide and probe quality certificate.

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Choose your configuration:

- 2 Two-electrode cell conductivity, AISI 316 stainless steel cell constant k ≈ 0.1/cm
- 8 Smart probe, with RS485 connection
- zz 00 supplied with DIN connector (without cable). See Accessories section for patch cable ordering codes.
 05, 10, 15, 25, 50 fixed cable length (in meters)