

HI720

Conductivity Process Digital Controller

with Inductive Probe

- Automatic temperature compensation
- Logging of up to 100 system events

HI720 is an on/off and PID EC/TDS controller with one or two set points and includes an inductive conductivity probe.

The measurement configuration settings and EC and TDS control are saved separately and permits users to switch between EC and TDS without losing settings. TDS or a specific user defined curve can be used for concentration.

Temperature is continuously monitored using a temperature sensor (Pt100 or Pt1000 type) with ATC of conductivity. Conductivity temperature compensation parameters are fully customizable: linear or non-linear temperature compensation, reference temperature and temperature coefficient. Users can define the specific curve of temperature compensation.

The working conductivity range is user selectable and the conductivity calibration in one point is performed in a value that corresponds to the measurement range.

The logging feature can save the last 100 error, configuration, calibration and cleaning events. This information can be accessible from a PC through RS485 and HI92500 software. The controller also has a full auto diagnostic procedure. A cleaning procedure of the EC inductive probe is also available.

In-Line Cleaning

The cleaning feature allows an automatic cleaning action of the probe. To perform cleaning, the controller activates an external device (pump). Cleaning actions never take place if no relay is configured for cleaning. Cleaning can be of two types:

- 1. Simple cleaning:** with water only, it can be triggered only by a timer (periodical cleaning) or by an error for which a cleaning action can be configured.
- 2. Advanced cleaning (optional):** with water and detergent, it can be triggered by the following events:

Timer: Digital input or RS485 command (external trigger); Timer and digital input or RS485 command (external trigger); Timer masked by the digital input (i.e. disabled when the digital input is on); Error for which a cleaning action can be configured



Specifications	HI720
Range	0 to 2000 mS/cm (autoranging); -30 to 130°C / -22 to 266°F
Resolution	1 µS/cm (0 to 1999 µS/cm); 0.01 mS/cm (2.00 to 19.99 mS/cm); 0.1 mS/cm (20.0 to 199.9 mS/cm); 1 mS/cm (200 to 2000 mS/cm); 0.1°C / 0.2°F
Accuracy (@25°C/77°F)	±2% f.s. (conductivity) / ±0.5°C / ±1°F
Temperature Compensation	automatic or manual, -30 to 130°C
Temperature Probe	three-wire or two-wire Pt100 or Pt1000 sensor with automatic recognition and damage test
Digital Input	digital transmitter, hold and advanced cleaning inputs
Digital Output	one digital insulated contact closed upon hold mode
Analog Output	one or two independent outputs; 0-22 mA (configuring as 0-20 mA or 4-20 mA)
Digital Serial Output	RS485
Dosing Relay	1, 2, 3 or 4 electromechanical relays SPDT; 5A-250 VAC, 5A-30 VDC (resistive load); fuse protected: 5A, 250 V fuse
Alarm Relay	1 electromechanical relay SPDT; 5A-250 VAC, 5A-30 VDC (resistive load); fuse protected: 5A, 250 V fuse
Installation Category	II
Power supply (depending on model)	24 VDC/ac, or 115 VAC or 230 VAC or 100 VAC ±10%, 50/60 Hz; fuse protected: 400 mA, 250 V fast fuse
Power Consumption	10 VA
Max Oscillation Frequency	8 MHz
Environment	0 to 50°C (32 to 122°F); RH max 85% non-condensing
Enclosure	single case 1/2 DIN
Weight	approximately 1.6 kg (3.5 lb.)
Ordering Information	Each HI720 model is supplied complete with mounting brackets and instructions. Choose your configuration:
	HI720122-1 single setpoint, on/off and PID control, single analog output, 115V
	HI720122-2 single setpoint, on/off and PID control, single analog output, 230V
	HI720224-1 dual setpoint, on/off and PID control, dual analog output, 115V
	HI720224-2 dual setpoint, on/off and PID control, dual analog output, 230V
Probes	HI7610 Stainless steel Pt100 probe with front and back 1/2" NPT thread and 5 m (16.4') cable
	HI7611 Glass Pt100 probe with front and back 1/2" NPT thread and 5 m (16.4') cable
	HI7620 Stainless steel Pt1000 probe with PG 13.5 thread and 5 m (16.4') cable
	HI7621 Glass Pt1000 probe with PG 13.5

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