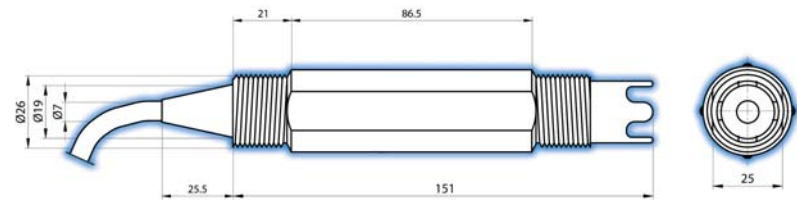


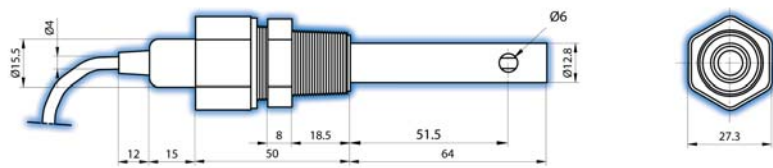
Technical Information

Dimensions (in mm)

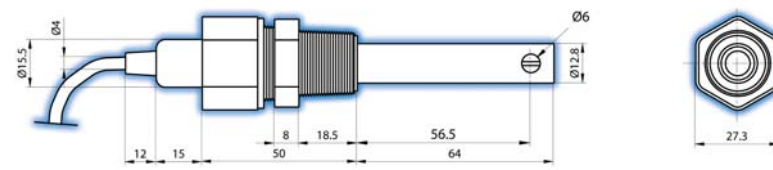
pH/ORP Electrode



Conductivity/TDS Cells



ECCS10-0-1S



ECCS10-1-0S



ECCONSEN88X



ECCONSEN89X

Specifications

alpha 200 Series

alpha pH 200	
pH Range	0.00 to 14.00 pH
Resolution/Accuracy	0.01 / ± 0.01 pH
mV Range	-999 to 1000 mV
Resolution/Accuracy	1 / ± 2.0 mV
Temperature	-10 to 110 °C
Resolution/Accuracy	0.1 / ± 0.5 °C
Sensor	Pt 100 (3-wire)
Temperature Compensation	Automatic / Manual (0 to 100 °C)
Set-point And Controller Functions	
Function	Limit Control
Switching pH/ORP Hysteresis	0.00 to 2.00 pH / 0 to 300 mV
Contact Outputs, Controller	2 SPDT relays
Switching Voltage/Current/Power	Max 250 VAC / Max 3A / Max 600 VA
Electrical Data And Connections	
Power Requirements	85 to 260 VAC, 50/60 Hz or DC
Signal Output / Load	4-20 mA galvanically isolated / 200 Ω
pH / ORP Input	BNC (10 ¹² Ω Impedance)
Connection Terminals	3 Detachable connectors (3-pin, 7-pin & 9-pin terminal blocks)
Main Fuse	250 mA, Anti-surge (BUSSMAN S504+250mA)
Environmental Conditions	
Ambient Temp. Operating Range	- 10 to 50 °C
Rel. Humidity	10 to 95 % (non-condensing)
Mechanical Specifications	
Dimensions (Control Panel Housing – W x H x D)	96 x 48 x 150 mm
Weight	300g (350g boxed)

alpha CON/TDS 200					
Conductivity Range	Resolution	Cell Constant	TDS Range	Resolution	Cell Constant
0.00 – 20.00 µS/cm	0.01 µS/cm	0.1	0.00 – 10.00 ppm	0.01 ppm	0.1
0.0 – 200.0 µS/cm	0.1 µS/cm	0.1	0.0 – 100.0 ppm	0.1 ppm	0.1
0.0 – 200.0 µS/cm	0.1 µS/cm	1	0.0 – 100.0 ppm	0.1 ppm	1
0 – 2000 µS/cm	1 µS/cm	1	0 – 1000 ppm	1 ppm	1
0.00 – 10.00 mS/cm	0.01 mS/cm	1	0.00 – 5.00 ppt	0.01 ppt	1
0.00 – 20.00 mS/cm	0.01 mS/cm	1	0.00 – 10.00 ppt	0.01 ppt	1
0.0 – 200.0 mS/cm	0.1 mS/cm	1	0.0 – 100.0 ppt	0.1 ppt	1
0.0 – 200.0 mS/cm	0.1 mS/cm	10	0.0 – 200.0 ppt	0.1 ppt	10
Relative Accuracy	± 1 % of full scale				
Temperature	-10 to 110 °C				
Resolution/Accuracy	0.1 / ± 0.5 °C				
Sensor	Pt 100 (3-wire)				
Temperature Compensation	Automatic / Manual (0 to 50 °C)				
Temperature Coefficient	0.0 to 5.0 %				
TDS Factor	0.40 to 1.00				
Set-point And Controller Functions					
Function	Limit Control				
Switching Conductivity Hysteresis	10% of full scale				
Contact Outputs, Controller	2 SPDT relays				
Switching Voltage / Current / Power	Max 250 VAC / Max 3A / Max 600 VA				
Electrical Data And Connections					
Power Requirements	85 to 260 VAC, 50/60 Hz or DC				
Signal Output / Load	4-20 mA galvanically isolated / 200 Ω				
Connection Terminals	3 Detachable connectors (3-pin; 7-pin & 9-pin terminal blocks)				
Main Fuse	250 mA, Anti-surge (BUSSMAN S504+250mA)				
Environmental Conditions					
Ambient Temp. Operating Range	- 10 to 50 °C				
Rel. Humidity	10 to 95 % (non-condensing)				
Mechanical Specifications					
Dimensions (Panel Housing – W x H x D)	96 x 48 x 150 mm				
Weight	300g (350g boxed)				

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Warranty

Eutech Instruments supplies meters with 3-year warranty and electrodes with 6-month warranty against manufacturing defects.

WORLD-WIDE SALES AND SERVICE SUPPORT

Eutech Instruments provides world-wide sales and service support for all its products through its network of international distributors. Contact Eutech Instruments for details of your nearest distributor.

Note: Eutech Instruments reserves the rights to make changes, improvements and modifications to products shown, without prior notice.

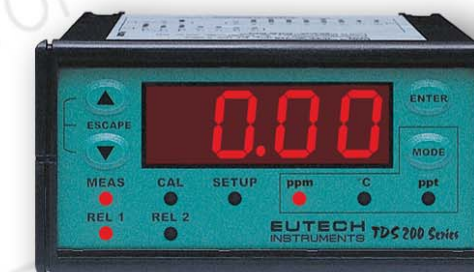
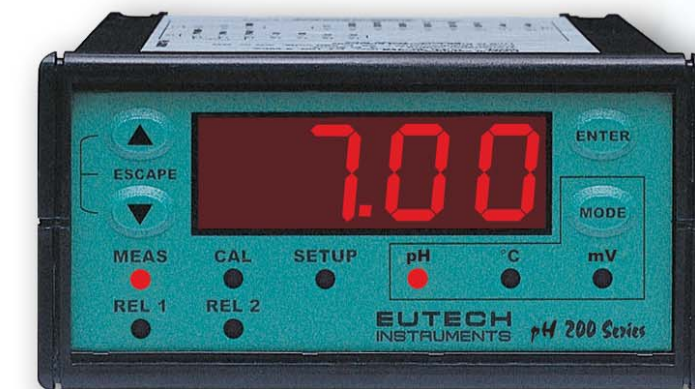


Distributed By:

Alpha 200 series

Controllers & Transmitters

1/8 DIN Panel Mount Controllers for Process Monitoring and Control



EUTECH INSTRUMENTS
Technology Made Easy...



CON 08X233407 8/03 Rev 0

alpha pH 200

pH/ORP Controller / Transmitter

The alpha 200 pH controller / transmitter uses advanced microprocessor technology and is an ideal choice for industrial process monitoring and control applications.



- pH / ORP Controller**
 The alpha pH 200 controller is both a pH and an ORP controller – simply configure the controller via the keypad as needed.
- Bright LED**
 New 14 segment alpha numeric 4-digit LED display is bright, clear and easy to read, even at a distance. Either pH or Temperature measurements can be viewed.
- Fine Resolution of Readings**
 4-digit LED allows 0.01 pH resolution and 1 mV for ORP.
- Menu-driven Setup**
 6 submenus accessible via the 4-button keypad, allows customization of operating parameters.

- Push-button Auto-calibration**
 Single push-button activates calibration sequence. Buffer recognition feature quickens calibration process. Unique 'HOLD' feature freezes relay activity during calibration setup.
- USA / NIST Buffer Options**
 Both buffer sets are available in the same controller. Simply select the appropriate buffer in the calibration mode.
- Dual Setpoints with Independent Hysteresis for Limit Control**
 Two Single Pole Double Throw (SPDT) relays are provided for limit control operations. Peripheral devices are protected by the 'Hysteresis' function which prevents relay-chattering.
- Symmetrical Mode of Operation**
 Eliminate fluctuating pH/ORP readings as a result of electrical noise in the application tank. Used in conjunction with the Potential Matching Pin (PMP) in the electrode, readings are stabilized.
- Password Protection**
 Unauthorized and accidental tampering of configuration and calibration data is prevented by password access.
- Temperature Compensation**
 pH readings can be automatically compensated for temperature fluctuations when Pt 100 sensor is attached. 3-wire system compensates for cable resistance. Manual temperature compensation is possible with separate inputs for Calibration and Process temperatures.
- 4-20 mA, Galvanically Isolated Output**
 pH mode : 0.00 pH – 4 mA & 14.00 pH – 20 mA
 ORP mode : -999 mV – 4 mA & 1000 mV – 20 mA
- Switch Mode Power Supply**
 85 to 260VAC, 50/60 Hz or DC variable input allows controller to be used with wide supply voltages that might be available.
- Panel Installation**
 Designed to 1/8 DIN size, installation is easy with the supplied accessories. Detachable plug-in connectors offer quick and easy attachment or removal of wires from controller.

Ordering Information:

Product Description	Order Code
alpha pH 200 pH/ORP Controller/Transmitter	ECPHCTP0200
pH Combination Electrode with Pt 100 RTD and PMP	EC-100GTSO-05B
pH Combination Electrode with HF resistant glass (w/o ATC & PMP)	EC-ARTSOHF-05B
pH Combination Electrode with PMP (w/o ATC)	EC-ARGTSO-05B
pH Combination Electrode with high temperature (110 °C) and high pressure resistance (9 bar) (w/o ATC & PMP)	EC-ARHTTSO-05B
pH Combination Electrode (w/o ATC & PMP)	EC-ARTSO-05B
Submersible pH Combination Electrode (w/o ATC 2 PMP)	ECD93506-05B
ORP Gold Electrode	EC-HTAUTSO-05B
ORP Platinum Electrode	EC-HTPTTSO-05B

* Electrodes are supplied with 5m cable length.



ARGTSO1100GTSO0-05B



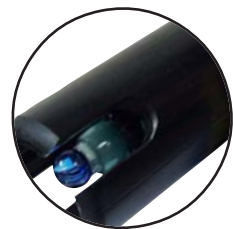
ARTSO-05B/ARHTTSO-05B/
ARTSOHF-05B



HTPTTSO-05B



HTAUTSO-05B



DA9350605B

alpha Conductivity 200/TDS 200

Conductivity/TDS Controller / Transmitter

Use the alpha 200 Conductivity / Total Dissolved Solids panel mount controller / transmitter to monitor and control a wide variety of industrial water and waste water applications.



- Multiple Ranges in a Single Unit**
 Up to 10 different measurement ranges are available in a single unit (software selectable) with fine resolution of readings. Each unit is configurable for a wide range of user applications from pure water to electroplating rinse tank conductivity control.

Conductivity Range	Resolution	TDS Range	Resolution
0.00 – 20.00 µS/cm	0.01 µS/cm	0.00 – 10.00 ppm	0.01 ppm
0.0 – 200.0 µS/cm	0.1 µS/cm	0.0 – 100.0 ppm	0.1 ppm
0.0 – 200.0 µS/cm	0.1 µS/cm	0.0 – 100.0 ppm	0.1 ppm
0 – 2000 µS/cm	1 µS/cm	0 – 1000 ppm	1 ppm
0.00 – 10.00 mS/cm	0.01 mS/cm	0.00 – 5.00 ppt	0.01 ppt
0.00 – 20.00 mS/cm	0.01 mS/cm	0.00 – 10.00 ppt	0.01 ppt
0.0 – 200.0 mS/cm	0.1 mS/cm	0.0 – 100.0 ppt	0.1 ppt
0.0 – 200.0 mS/cm	0.1 mS/cm	0.0 – 200.0 ppt	0.1 ppt

- High Accuracy in Measurements**
 Up to ±1 % of full scale accuracy is possible with the alpha CON/TDS 200.
- Bright LED**
 New 14 segment alpha numeric 4-digit LED display is bright, clear and easy to read, even at a distance. Either Conductivity/TDS or Temperature measurements can be viewed.
- Menu-driven Setup**
 Extensive submenus accessible via the 4-button keypad, allows customization of operating parameters, including measurement range selection.
- Push-button Calibration**
 In each selected range, calibration can be performed easily, with push-buttons. Irrespective of temperature, accuracy is maintained during calibration due to the active ATC. All relays freeze during the calibration sequence with the unique 'HOLD' function.
- Selectable Temperature Coefficient (TC)**
 To obtain a higher degree of accuracy in your measurement, you can select an appropriate TC from 0.0 to 5.0%.
- Dual Setpoints with Independent Hysteresis for Limit Control**
 Two Single Pole Double Throw (SPDT) relays are provided for limit control operations. Peripheral devices are protected by the 'Hysteresis' function which prevents relay-chattering.

- Password Protection**
 Unauthorized or accidental tampering of configuration and calibration is prevented by password access.
- Temperature Compensation**
 Conductivity/TDS readings can be automatically compensated for temperature fluctuations when a Pt 100 sensor is attached. 3-wire system compensates for cable resistance. Manual temperature compensation is possible with separate inputs for calibration and process temperature.
- 4-20 mA, Galvanically Isolated Output**
 Full scale 4-20mA galvanically isolated current output is available for process control.
- Switch Mode Power Supply**
 85 to 260VAC, 50/60 Hz or DC input allows controller to be used with wide range of voltages.
- Panel Installation**
 Designed to 1/8 DIN size, installation is easy with the supplied accessories. Detachable plug-in connectors offer quick and easy attachment or removal of wires from controller.



CONSEN88X



CS10-0-1S



CONSEN89X



CS10-1-0S

Ordering Information

Product Description	Order Code
alpha CON 200 Controller/Transmitter	ECCONCTP0200
alpha TDS 200 Controller/Transmitter	ECTDSCTP0200
Conductivity cell, epoxy body graphite sensor, 0.1 cell constant	ECCONSEN89X
Conductivity cell, epoxy body graphite sensor, 1.0 cell constant	ECCONSEN88X
Conductivity cell, stainless steel, 1.0 cell constant	ECCS10-1-0S
Conductivity cell, stainless steel, 0.1 cell constant	ECCS10-0-1S

* Electrodes are supplied with 3-wire Pt100, 8m cable length.

Technical Information

Dimensions (in mm)

