

αpha-pH 200

C O N T R O L L E R

αpha-pH 200
pH/ORP Controller

ISO 9001
CERTIFIED



- Application Specific Integrated Circuit (ASIC)
- pH or ORP Mode
- 14 Segment Alphanumeric 4 Digit LED Panel
- Resolution of 0.01 pH or 1 mV
- Menu-Driven Setup
- Push-button Auto Calibration
- Limit Control for Dual Setpoints with Independent Hysteresis Bands
- User Selectable USA or NIST Buffer Standards
- Symmetrical Operation For Electrically Noisy Environments
- Password Protection
- 4-20 mA Transmitter Output
- 85 to 260 VAC, 50/60Hz or DC Power Requirements
- 3-wire Pt 100
- 1/8 Din Size

EUTECH
INSTRUMENTS
Technology Made Easy ...

The alpha pH 200 Controller/Transmitter with cutting-edge technology, equipped with the latest ASIC microprocessor, offers more features at a lower cost. And configuring the controller is a breeze with the menu-driven SETUP program for pH or ORP applications.

BRIGHT LED DISPLAY

The 14 segment alphanumeric 4 digit LED display allows fine resolutions of 0.01 pH or 1 mV for ORP. Measured readings are bright, clear and easy to read, even at a distance.

SETUP

4-button splash-proof tactile keypad enables quick and easy configuration. 6 sub-menus allows customization of operating parameters, tailored to application requirements. Password protection for SETUP and CAL functions. Relays are deactivated when in SETUP mode.

CALIBRATION

Calibration sequence is activated by single button press. USA and NIST pH buffer options are available for two-point (pH mode) calibration via push-buttons with buffer recognition (pH mode) and self-diagnostic message display. Relays are deactivated when in the CAL mode for safety purposes.

MEASUREMENT AND CONTROL

Relays are activated if measured value exceeds Hi / Lo setting at each set point. In electrically noisy environments, controller can be configured to the symmetrical mode of operation.

CONTROL ACTION

Two set points operate in limit control mode. Rapid contact switching of relays is prevented by hysteresis band selection, available for each set point.

TEMPERATURE COMPENSATION

All pH readings are automatically temperature compensated (ATC), in the presence of a 3-wire Pt 100 system. On-line temperature calibration is available in ATC mode. Manual temperature compensation mode is also available.

GALVANICALLY ISOLATED OUTPUT

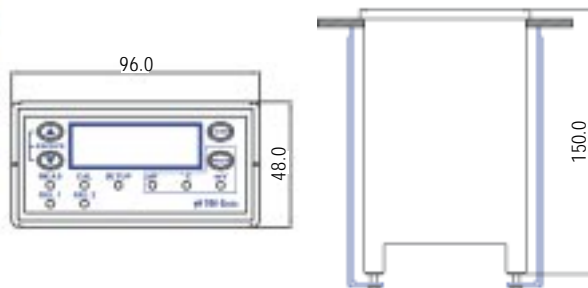
pH mode: 0.00 pH – 4 mA and 14.00 pH – 20 mA
ORP mode: -999 mV – 4 mA and 1000 mV – 20 mA

POWER REQUIREMENTS

85 to 260 VAC, 50/60 Hz or DC variable input allows controller to be used in almost any part of the world. SMPS accepts AC or DC power supply.

INSTALLATION

Designed to 1/8 DIN size, alpha pH 200 is easy to install with supplied accessories. Detachable plug-in connectors offer quick and easy attachment or removal of wires from controller.



WARRANTY

Eutech Instruments warrants its controller free from manufacturing defects for 1 year and electrodes for 6 months.

SPECIFICATIONS

Alpha pH-200 Controller / Transmitter

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 mV
Temperature Range	-10.0 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 m
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 Impedance) Connection
Terminals	3 Detachable connectors (3-pin; 7-pin & 9-pin terminal blocks)
Main Fuse	500 mA, slow-blow

Environmental Conditions

Ambient Temp. Operating Range	- 10 to 50 °C (14 to 122 °F)
Rel. Humidity	10 to 95 % (non-condensing)

Mechanical Specifications

Dimensions (Control Panel Housing – L x H x W)	155 X 48.0 X 96.0 mm
Weight	300g (350g boxed)

ORDERING INFORMATION

Order No.	Item
EC-PHCTP0200	Alpha pH 200 pH/ORP Controller / Transmitter 85 ~ 260 VAC/DC operation
EC-100GTS0-05B	pH electrode with Pt 100 and potential matching pin, 5-metre cable, BNC
EC-ARGTS0-05B	pH electrode with potential matching pin, 5-metre cable, BNC
EC-ARHTTS0-05B	High temperature pH electrode, 5-metre cable, BNC
EC-ARTS0-05B	General purpose pH electrode, 5-metre cable, BNC
EC-HTPTTS0-05B	Platinum ORP electrode (high temperature) with potential matching pin, 5-metre cable, BNC
EC-HTAUTS0-05B	Gold ORP electrode (high temperature) with potential matching pin, 5-metre cable, BNC

* Extension cables available

Eutech also provides controller accessories and calibration standards. Refer to separate brochures for information.

Note: Eutech reserves the right to make changes, improvements and modifications to products shown.

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Wide selection of pH and ORP sensors to give reliable and accurate measurements. Teflon reference junction prolongs life-span with quick and easy maintenance.

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