

αlpha-pH 500

T R A N S M I T T E R

αlpha pH 500 pH/ORP
2-wire Transmitter with display



- Microprocessor based
- LCD display of both pH / ORP and Temperature
- Push-button Calibration / Setup
- USA or NIST pH buffer standards
- Zoomable 4 / 20 mA output
- HOLD output current indicator
- Symmetrical Mode of operation in electrically noisy environments
- ATC with pt 100 (2 or 3 wire system)
- MTC with separate inputs for Process and Calibration temperatures
- 1/4-DN size for Panel or Wall mountable
- IP65 (weather-proof housing)
- 12 ~ 24 VDC power requirement

ISO 9001
CERTIFIED

EUTECH
INSTRUMENTS
Technology Made Easy ...

MICROPROCESSOR-BASED pH/ORP TRANSMITTER

α pha pH 500 Transmitter can be operated either as a pH or ORP Transmitter. Select pH or ORP mode of operation through software and connect the appropriate electrode.

DUAL CUSTOM LCD

LCD has primary and secondary display, for simultaneous pH or ORP display and Temperature. Allows for more accurate calibration and instantaneous viewing of readings.

PUSH-BUTTON CALIBRATION

Four-buttons on keypad for calibration and setup. 2-point automatic calibration for pH with slope/offset display, NIST or USA buffer options. Similarly, push-button offset adjustment for ORP calibration with offset display.

ZOOMABLE 4/20 MA CURRENT OUTPUT

Assign pH or ORP values at 4 and 20 mA for better resolved output at chart recorder or other peripheral device.

OUT-OF-RANGE OUTPUT CURRENT INDICATOR

When pH or ORP values exceed the range of measurement, pH 500 Transmitter can be configured to emit a pre-set output current to indicate out-of-range values. Avoids discrepancy in readings.

HOLD OUTPUT CURRENT INDICATOR

During Calibration sequence and SETUP mode, Transmitter automatically switches to 'HOLD', whereby current output is held at the last corresponding, measured value. With the pH 500, the 'HOLD' mode can be configured to emit a pre-set output current to indicate Transmitter is in 'HOLD'.

SYMMETRICAL MODE OF OPERATION

Unique mode available in the Eutech transmitters allows the α pha pH 500 to be operated in environments with electrical interferences. Simply configure the transmitter to the symmetrical mode and attach a potential matching pin.

TEMPERATURE COMPENSATION

Compensate variance in the pH readings due to temperature fluctuations, either Automatically (with Pt 100) or Manually (one point, input Process and Calibration temperature separately).

PANEL OR WALL MOUNT, WEATHERPROOF HOUSING

α pha pH 500 has the flexibility to be mounted on the wall or in a control panel. In addition, the IP 65 rated housing allows the transmitter to be installed outdoors or indoors. Mounting accessories are included for both types of mounting.

DC VOLTAGE

Transmitters operate on a 12 to 24V D.C. power supply, and allows for transmitter to be installed in a serial loop. Operations are not disrupted even if one of the Transmitters requires service.

WARRANTY

α pha pH 500 is supplied with a 1-year warranty against manufacture defects while electrodes for 6 months.

SPECIFICATIONS

Specifications	Descriptions
pH Range	0.00 to 14.00 pH
Resolution / Accuracy	0.01 pH / ± 0.01 pH
Temperature Range	-10.0 to 110.0 °C
Resolution / Accuracy	0.1 °C / ± 0.5 for °C
Millivolt Range	-1000 to +1000 mV
Resolution / Accuracy	1 mV / ± 2 mV
Temperature Compensation	Auto (Pt 100) / Manual (from 0 to 100 °C)
Number of calibration points	2
Number of calibration buffers	USA: 4.01, 7.00, 10.01; NIST: 4.01, 6.86, 9.18
Inputs	BNC, Asymmetrical / Symmetrical
Output	4.0 to 20.0 mA
Over- / Under range current output	3.8 mA
HOLD current output	22 mA
Display	Custom Dual LCD
Power Requirements	12 to 24 VDC
Dimension / Weight	96 x 96 x 66 mm / 210 g

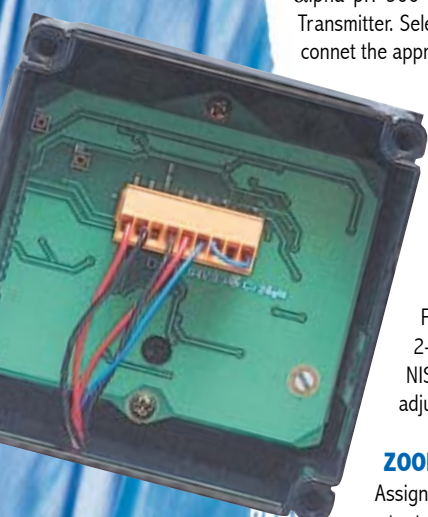
ORDERING INFORMATION

Order No.	Item
ECPHCTP0500	α pha pH 500 pH/ORP 2-wire LCD Transmitter
ECDA93506-05B	Submersible Combination pH electrode, 5m cable
ECARTSO-05B	Combination pH electrode, general purpose, 5m cable
ECARGTSO-05B	Combination pH electrode, with PMP, 5m cable
ECHPTTTSO-05B	Combination Platinum ORP electrode with PMP 5m cable
ECHTAUTTSO-05B	Combination Gold ORP electrode with PMP, 5m cable

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

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

Distributed By:



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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