



Thermo Scientific Alpha pH 500 pH/ORP 2-Wire Transmitter:

pH/ORP/Temperature:

Clear, uninterrupted data transmission is no problem with the Alpha pH 500, even in environments with electrical interferences. User-friendly and cost efficient, the transmitter comes with a large LCD screen to double up as a monitor – very convenient for quick checks on-the-spot.

- Measures, displays and transmit pH/ORP with temperature simultaneously
- Symmetrical Mode option, two-wire design and input-to-output isolation give clear, uninterrupted data transmission in electrically noisy ambient
- High quality, high resolution output at chart printers and other secondary devices
- Offset Adjustment Function allows you to adjust readings conveniently without having to remove electrode from the measurement tank or pipe
- Reliable, accurate measurements at different temperature with Automatic Temperature Compensation

**24/7 clear,
uninterrupted
pH data
transmission**



Thermo Scientific Alpha pH 550 pH/ORP Monitor:

pH/ORP/Temperature:

With a large, custom-size LCD screen, the Alpha pH 550 provides clear visuals even in dark ambients. Monitor automatically recognizes US and NIST buffers for easy calibration, and is flexibly designed for panel mounting or wall mounting.

- Measures and displays pH/ORP with temperature simultaneously
- Symmetrical Mode option gives clear, accurate readings in electrically noisy ambient
- Push button operation for easy set-up programming and customization
- US and NIST auto buffer recognition for quick, easy calibration
- Reliable, accurate measurements at different temperature with Automatic Temperature Compensation

No frills pH monitoring with symmetrical mode options for clear pH measurements, even in electronically noisy ambients



Thermo Scientific Alpha pH 560 pH/ORP Controller:

pH/ORP/Temperature:

Alpha pH 560 limit control meter simplifies the task of controlling several processes with two set-point relays. Separately adjustable high and low hysteresis ensures chatter-free signals, preventing false alarms and unnecessary down-times.

- Separately adjustable High/Low hysteresis with user-adjustable time delay of up to 2000 seconds for minimal chattering and false alarm
- Two switching contacts as set-point relays
- Large UV Light protected LCD with backlight
- Symmetrical Mode option gives clear, accurate readings in electrically noisy ambient
- Push button operation for easy set-up programming and customization
- US and NIST auto buffer recognition for quick, easy calibration
- Reliable, accurate measurements at different temperature with Automatic Temperature Compensation

Reliable pH control with minimal false alarms and unnecessary down-times

Specification Information

pH/ORP Transmitter/Monitor/Controller	Alpha pH 500	Alpha pH 550	Alpha pH 560
Order Code	TSPHCTP0500	TSPHCP0550	TSPHCP0560
Part No.	01X303608	01X402503	01X402603
pH:			
Range:	0.00 to 14.00 pH		
Resolution:	0.01 pH		
Accuracy:	±0.01 pH		
ORP:			
Range:	-1000 to 1000 mV		
Resolution:	1 mV		
Accuracy:	±2 mV		±1 mV
Temperature:			
Range:	-10.0 to 110.0 °C	-10.0 to 125.0 °C / 14.0 to 157.0 °F	
Resolution:	0.1 °C	0.1 °C / 0.1 °F	
Accuracy:	±0.5 °C	±0.5 °C / ±0.9 °F	
Sensor:	Pt100; 2 or 3 wire		
Compensation:	Auto/manual		
Transmitter (Alpha pH 500 only):			
Transmitter function:	4 to 20 mA scalable outputs for pH/ORP, galvanically isolated		–
Out-of-range current output:	3.8 mA: 'On' select selects 3.8 mA 'Off' selects 4 mA (under range) Selects 20 mA (over range)		–
Hold current output:	22 mA: 'On' select selects 22 mA 'Off' selects last measured current value		–
Load:	Max. 600 Ω		–
Controller (Alpha pH 560 only):			
Set point 1 (SP1) / set point 2 (SP2):	–		0.00 to 14.00 pH
Switching pH hysteresis:	–		±1.0 pH
Switching ORP hysteresis:	–		10 to 100 mV
Function (switchable):	–		Limit control; off
Pickup/dropout delay:	–		0 to 2000 sec
Contact outputs:	–		2 SPST relays
Switching voltage/current power:	–		1/8 HP: at 125 VAC / max. 0.74 A / max. 93 VA 1/8 HP: at 250 VAC / max. 0.37 A / max. 93 VA
Electrical data & connections:			
pH/ORP input:	2-pin terminal; asymmetrical/symmetrical		
Connection terminal:	3-pin & 8-pin terminal, detachable blocks	2-pin & 8-pin terminal, detachable blocks; DC jack	
Display:			
LCD:	7 segments display with symbols for status information		
Backlight:	No		Yes (on/off selectable)
Power supply:			
Input:	12 to 24 V DC	12 to 24 V DC or 9 V DC	
EMC specifications:			
Emitted interference:	According to EN 61326		
Immunity to interference:	According to EN 61326		
Environmental conditions:			
Operating temperature range:	0 to 40 °C		
Max. relative humidity:	80 % up to 31 °C decreasing linearly to 50 % at 40 °C		
Mechanical specifications:			
Dimensions (WxHxD):	96 x 96 x 66 mm		
Weight:	210 g (unit) / 310 g (packed)		
Ingress protection:	IP65		