

8 TECHNICAL SPECIFICATIONS

Alpha pH 2000 Controller / Transmitter	
pH Range	-2.00 to 16.00 pH
Resolution & Accuracy	0.01 pH & ± 0.01 pH
mV Range	0 to 100% or -1000 to 1000 mV
Resolution & Accuracy	0.1% or 1 mV / ± 1 mV
Temperature	-9.9 to 125 °C (15.0 to 257.0 °F)
Resolution & Accuracy	0.1 & ± 0.5 °C (± 1.0 °F)
Sensor	Pt 1000 or Pt 100 (jumper selectable)
Temperature Compensation	Automatic (± 10 °C / ± 18 °F offset adjustment) / Manual
Set-point And Controller Functions	
Function	Limit / Proportional Control / Proportional Integral (Pulse Length or Pulse Frequency)
Integral time	999.9 minutes
Pickup / Dropout Delay	0 to 1999 seconds
Wash Cycle	0.1 to 199.9 hours
Wash Duration	1 to 1999 seconds
Switching pH Hysteresis	0.1 to 1 pH
Switching ORP Hysteresis	1 to 10.0 % / 10 to 100 mV
Contact Outputs, Controller	1 SPDT; 3 SPST relays
Switching Voltage/Current/Power	Max 250 VAC / Max 3A / Max 600 VA
Electrical Data And Connections	
Power Requirements	80 to 250 V AC/DC / 48 to 62 Hz
Signal Output / Load	Two 0/4 – 22 mA outputs for pH/mV and temperature, galvanically isolated
Signal Output Load	600 Ω
pH / ORP Input	BNC (10^{12} Impedance)
Signal Input	Asymmetrical / Symmetrical
Connection Terminals	5 detachable connectors (2 x 3-pins; 8-pin, 9-pin & 13-pin terminal blocks)
Main Fuse	250 mA, anti-surge
Alarm Functions	
Function (switchable)	Latching / pulse
Pickup delay	0 to 1999 seconds
Switching Voltage/Current/Power	Max 250 VAC / Max 3A / Max 600 VA
Display	
LCD	UV coat, backlit 14 segments display with symbols for status information
Backlight	On/Off selection with four level of brightness control
EMC Specifications	
Emissions	According to EN 50081-1
Susceptibility	According to EN 50082-1
Environmental Conditions	
Ambient Temp. Operating Range	-10 to 50 °C (14 to 122 °F)
Rel. Humidity	10 to 95% (non-condensing)
Mechanical Specifications	
Dimensions (W x H x D)	144 x 144 x 110 mm Wall Mount
Weight	670g (unit); 950g (boxed)
Material	PBT
Insulation	NEMA 4X, IP 65

9 ACCESSORIES

Replacement Unit

Product Description	Code no.
αpha-pH2000 pH/ORP Controller/Transmitter	EC-PHCTP2000

Assembly Accessories

Product Description	Code no.
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 resistance (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
ORP Gold Electrode with PMP but w/o ATC	EC-HTAUTSO-05B
ORP Platinum Electrode with PMP but w/o ATC	EC-HTPTTSO-05B

Note: Above pH/ORP electrodes withstand up to 6 bar pressure except EC-ARHTTSO-05B. These electrodes have integral 5m measuring cable terminating with a BNC connector.

Please contact your authorised distributor or dealer for the prices of extension measuring cables and other accessories like tee joints, electrode assembly, and calibration solutions.