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## 8 TECHNICAL SPECIFICATIONS

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### 8.1 General Specification

#### alpha pH 2000 Controller / Transmitter

pH Range	-2.00 to 16.00 pH
Resolution & Accuracy	0.01 pH & $\pm 0.01$ pH
mV Range	0 to 100% or -1000 to 1000 mV
Resolution & Accuracy	0.1% or 1 mV / $\pm 1$ mV
Temperature	-9.9 to 125 °C (15.0 to 257.0 °F)
Resolution & Accuracy	0.1 & $\pm 0.5$ °C ( $\pm 1.0$ °F)
Sensor	Pt 1000 or Pt 100 (jumper selectable)
Temperature Compensation	Automatic ( $\pm 10$ °C / $\pm 18$ °F offset adjustment) / Manual

#### Set-point And Controller Functions

Function	Limit / Proportional Control / Proportional Integral (Pulse Length or Pulse Frequency)
Integral time	0 to 999.9 minutes
Adjustable period with pulse length controller	0.5 to 20 sec
Adjustable period with pulse frequency controller	60 to 120 pulses/min
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

#### 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

Emitted Interference	EN 61 326
Immunity to Interference	EN 61 326

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**Environmental Conditions**

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

**Power Supply**

Input	80 to 250 VAC/DC 48/62 Hz
Main Fuse	250 mA anti-surge
Pollution Degree	2
Transient Overvoltage category	II

**8.2 Specifications for wall mount version****Electrical Data and Connections**

Signal output	Two 0/4 to 20 mA outputs for pH/mv and temperature , galvanically isolated
Load	Max.600 Ω
pH / ORP Input	BNC (10 <sup>12</sup> Impedance)
Connection terminal	(1 x 3-pins; 8-pin, 9-pin & 13-pin terminal blocks)

**Mechanical Specification**

Dimensions	144 x 144 x 111.5 mm (5.67 x 5.67 x 4.39 inch)
Weight	745g (unit); 1100g (boxed)
Material	PBT
Insulation	NEMA 4X, IP 65

### 8.3 Specifications for panel mount version

#### Electrical Data And Connections

Signal output	Two 0/4 to 20 mA outputs for pH/mv and temperature , galvanically isolated
Load	Max.600 Ω
pH / ORP Input	BNC (10 <sup>12</sup> Impedance)
Connection terminal	(1 x 3-pin; 1 x 9-pin & 1 x 19-pin terminal blocks)

#### Mechanical Specifications

Dimensions	175 x 96 x 96 mm ( 6.89 x 3.78 x3.78 inch)
Weight	550g (unit); 950g (boxed)
Material	ABS
Insulation	IP 54 (front) , IP 40 (housing)