



alpha-CON2000 Wall Mount/Panel Mount pH/ORP Analyzer



Product Features

- v Seven ranges in a single controller allows the controller to be used in a wide variety of applications with the maximum range at 1000 mS/cm
- v User-Customization through Advanced Setup Menu offers flexibility in matching the controller's functions to suit individual's specific requirement
- v Choice of 4-cell or 2-cell electrode system
- v Programmable for On/Off, Proportional, or PI (Proportional Integral Control) - ideal for most demanding precision process control applications
- v Backlit Display offers reading in low-light conditions
- v Universal Power Supply Input from 85 to 250 VAC/DC allows use at multiple sites and withstands voltage fluctuations
- v Two Galvanically Isolated Scaleable 0-20/4-20 mA Outputs for Conductivity and temperature
- v Wash Contact Relay controls electrodes cleaning systems at desired duration and frequency
- v Adjustable Hysteresis (Dead Band) prevents rapid contact switching near set point
- v Non-Volatile Memory retains all stored parameters and calibration data even if power fails
- v Large Dual Display shows measurement with temperature simultaneously - features clear multiple icons, set points, and status messages
- v Choice of Temperature Sensor Pt100/Pt1000 with 2-wire or 3-wire temperature input selection
- v Easy Installation and Wiring with detachable plug-in connectors
- v Panel-mounted version is also available

Applications

General: Use for virtually any batch or online applications where rapid, accurate control. Great for OEM/system integrator.



Industrial: Use in applications involving agriculture, chemical processing, boiler and water heaters, wafer-fab, microprocessor manufacturing, pharmaceuticals, pulp and paper industries, and bleach manufacturing.

Water Purification/Treatment: Use to treat batches of incoming process water, ultrapure water, boiler and feed water control.

Regulatory: Hook to recorder to document data for regulatory compliance.

Specifications

Product Specification	Description												
Conductivity Ranges/Resolution	<table border="0"> <tr> <td>.. to 2.000 μS/cm</td> <td>0.001 μS/cm</td> </tr> <tr> <td>.. to 20.00 μS/cm</td> <td>0.001 μS/cm</td> </tr> <tr> <td>.. to 200.0 μS/cm</td> <td>0.1 μS/cm</td> </tr> <tr> <td>.. to 2000 μS/cm</td> <td>1 μS/cm</td> </tr> <tr> <td>.. to 20.00 mS/cm</td> <td>0.01 mS/cm</td> </tr> <tr> <td>.. to 200.0 mS/cm</td> <td>1 mS/cm</td> </tr> </table>	.. to 2.000 μ S/cm	0.001 μ S/cm	.. to 20.00 μ S/cm	0.001 μ S/cm	.. to 200.0 μ S/cm	0.1 μ S/cm	.. to 2000 μ S/cm	1 μ S/cm	.. to 20.00 mS/cm	0.01 mS/cm	.. to 200.0 mS/cm	1 mS/cm
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Accuracy	± 1 % of full scale reading (± 2 % > 500 mS/cm)												
Temperature Range	-10.0 to 125 $^{\circ}$ C (14.0 to 257.0 $^{\circ}$ F)												
Resolution & Relative Accuracy	0.1 $^{\circ}$ C / $^{\circ}$ F & ± 0.5 $^{\circ}$ C / ± 1.0 $^{\circ}$ F												
Temperature Sensor	Pt100/ Pt1000 (jumper selectable); 2 or 3 wire												
Temperature Compensation	Auto / Manual (Reference at 25 $^{\circ}$ C)												
Set Point and Controller Functions													
Integral Time	0 to 999.9 minutes												
Switching Hysteresis	0 to 10 % of full scale												
Function (Switchable)	P/PI control (Pulse Length / Pulse Frequency); Limit Control; Off												
Adjustable Period with Pulse Length Controller	0.5 to 20 seconds												
Adjustable Period with Pulse Frequency Controller	60 to 120 pulses/min												
Pickup / Dropout Delay	0 to 2000 seconds												
Wash Cycle	0.1 to 200.0 hours												
Wash Duration	1 to 2000 seconds												
Contact Outputs, Controller	1 SPDT, 3 SPST relays												



Switching Voltage / Current / Power	Max 250 VAC / Max 3A / Max 600VA	
Alarm Functions		
Function (Switchable)	Latching / pulse	
Pickup Delay	0 to 2000 seconds	
Display		
LCD	UV coat, backlit 14 segments display with symbols for status information	
Backlight	On/Off selectable with four levels of brightness control	
Electromagnetic Compliance (EMC) Specifications		
Emitted Interference	According to EN 61326	
Immunity to Interference	According to EN 61326	
Environmental Conditions		
Ambient Temperature	0 to 40 °C	
Operating Range		
Maximum Relative Humidity	80% up to 31 °C decreasing linearly to 50% at 40 °C	
Power Supply		
Input	80 to 250 VAC/DC 50/60 Hz Approx. 10 VA	
Main Fuse	315 mA, Anti-surge, S504 BUSSMAN	
Pollution Degree	2	
Transient Overvoltage	II	
Category		
Electrical Data and Connections		
Transmitter Function	Two 0/4 to 20 mA scalable outputs for pH/ORP and temperature, galvanically isolated	
CU 22 Function	22 mA current output	
Isolated Output Voltage	+12V ±0.5 V (Max 50 mA)	
Hold Function Switch	To freeze output current and deactivate control relays	
Load	Max 600 W	
Conductivity Input	Screw terminal	
Connection Terminal (Wall Mount)	3-pin, 8-pin, 9-pin and 13-pin terminal, detachable blocks	
Connection Terminal (Panel Mount)	3-pin, 9-pin and 19-pin terminal, detachable blocks	
Mechanical Specifications		
Dimensions (W x H x D)	Wall-mount:	144 x 144 x 110 mm
	Panel-mount:	96 X 96 X 175 mm
Weight	Wall-mount:	745g (Unit) / 1100g
	Panel-mount:	(Packed)



		950g (Unit) / 1100g (Packed)
Environmental Rating	Wall-mount:	IP66 (NEMA 4X)
	Panel-mount:	IP54 (front panel)