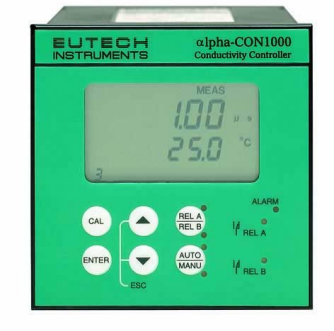
alpha-COND 1002
1/4 DIN Conductivity Controller



Product Features

- Ten Selectable Conductivity Measurement Ranges in one controller via its IP54 front panel. High-level accuracy of ±1% of full scale can be obtained with appropriate cells and correct temperature coefficient
- User-Customization through Advanced Setup Menu offers flexibility in matching the controller's functions to suit individual's specific requirement
- Choice of Cell Constant (0.01, 0.1, 1.0, 10.0) for accurate control in any solution
- Hold Relay for use with float switches/flow switches and other controllers as a failsafe function
- Two Level Password Protection prevents un authorized tampering with settings
- 0 to 2000 Second Time Delay Adjustment on control and alarm delays
- Galvanically Isolated Scalebale 0-20/4-20 mA Outputs
- Wash Contact Relay controls electrodes cleaning systems at desired duration and frequency
- Adjustable Hysteresis (Dead Band) prevents rapid contact switching near set point
- Non-Volatile Memory retains all stored parameters and calibration data even if power fails
- Line Resistance Compensation against intrinsic cable resistance for longer cable connection
- Large Dual Display shows measurement with temperature simultaneously - features clear multiple icons, set points, and status messages
- Choice of Temperature Sensor Pt100/Pt1000 with 2-wire or 3-wire temperature input selection
- Easy Installation and Wiring with detachable plug-in connectors

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 up to recorder for regulatory compliance data collection.

Specifications

Product Specification	Description	
Conductivity Range	0.000 to 1.999 µS/cm	0.001 µS/cm
	0.01 µS/cm	0.01 µS/cm
	0.1 µS/cm	0.1 µS/cm
	1 µS/cm	1 µS/cm
	5 µS/cm	5 µS/cm
	0.01 mS/cm	0.01 mS/cm
	0.1 mS/cm	0.1 mS/cm
Accuracy	±1 % full scale	
Temperature Range	-9.9 to 125 ℃	
Resolution & Relative Accuracy	0.1 ℃ & ±0.5 ℃	
Temperature Sensor	Pt 100/ Pt 1000 (jumper selectable)	
Temperature Compensation	Auto / Manual (reference at 25 ℃)	
Set Point and Controller Functions		
Function	Limit / Proportional (pulse or frequency) controller	
Switching Hysteresis	0 to 10% full scale	
Pickup / Dropout Delay	0 to 2000 seconds	
Contact Outputs, Controller	2 potential free change-over contacts	
Switching Voltage / Current / Power	Max 250 VAC / Max 3A / Max 600VA	
Alarm Functions		
Function	Launching or Pulse	

(Switchable)	
Pickup Delay	0 to 2000 seconds
Switching Voltage / Current / Power	Max 250 VAC / Max 3A / Max 600VA
Electrical Data and Connections	
Power requirement	110/ 220 VAC (jumper selection)
Frequency	48 to 62Hz
Signal Output	0/4 to 20mA, galvanically isolated
Load	Max. 600 Ω
Connection Terminal	Terminal blocks 5-pole/ 17-pole, removable
Main Fuse/ Fine Wire Fuse	Slow-blow 250 V/ 100 mA
EMC Specifications	
Emitted Interference	According to EN 50081-1
Immunity to Interference	According to EN EN 50082-1
Environmental Conditions	
Maximum Relative Humidity	10 to 95%, non-condensing
Ambient Temp. Operating Range	0 to 50 ℃
Mechanical Specifications	
Dimensions	175 x 96 x 96 mm
Weights	Max. 0.7kg
Material	ABS with polycarbonate
Insulation	IP 54/ IP 40