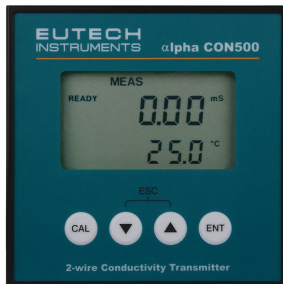




alpha-COND 500 1/4-DIN 2-Wire Conductivity Transmitter



Product Features

- ✓ New Design with Isolated Output - The alpha 500 series transmitter prevents output interference due to electrical noise or leakage from the input source. Cross talk between multiple transmitters in the same loop is also eliminated.
- ✓ Out-of-range Output Current Indicator - Monitor your process effectively using the optional out-of-range current indicator. When the monitored value exceeds the measurement range, the alpha 500 Transmitter indicates an out-of-range measurement by emitting a 3.8 mA output current.
- ✓ Hold Output Current Indicator - Use the optional HOLD output current indicator for your process control purposes. Configure the transmitter to emit the pre-set 22 mA output current to indicate 'HOLD' mode during calibration or set up mode.
- ✓ Scalable 4/20 mA Current Output - Assign Conductivity values at 4 and 20 mA for better resolved output at chart recorder or other peripheral devices.
- ✓ Custom Dual Display LCD - Primary and secondary display are available for simultaneous display of Conductivity and Temperature values. Allows instantaneous viewing of measured readings and transmitter set up configurations.
- ✓ Easy Push Button Operation - Simply calibrate or adjust setup configuration with just a few touches of the buttons. The alpha CON 500 push-button offset adjustment makes calibration simple.
- ✓ Temperature Compensation - Compensates variance in the measured readings due to temperature fluctuations, either Automatically (with Pt 100) or Manually (Process and Calibration temperatures can be set separately).
- ✓ Panel or Wall Mount, IP65 Weatherproof Housing - The alpha 500 series transmitter has the flexibility to be mounted on the wall or in a control panel. In addition, the IP65 rated housing allows the transmitter to be installed outdoors or indoors. Mounting accessories are included for both types of mounting.
- ✓ DC Voltage - Transmitters operate on a 12 to 24V D.C. power supply and multiples can be installed in a serial loop. Operations are not disrupted even if one of the transmitters requires service.



Specifications

Product Specification	Description
Conductivity range	R1 (R2): 0-20 $\mu\text{S/cm}$ R2 (R3): 0-200 $\mu\text{S/cm}$ R3 (R4): 0-2000 $\mu\text{S/cm}$ R4 (R5): 0-20 mS/cm R5 (R6): 0-200 mS/cm
Resolution	0.01 $\mu\text{S/cm}$ 0.1 $\mu\text{S/cm}$ 1 $\mu\text{S/cm}$ 0.01 mS/cm 0.01 mS/cm 0.1 mS/cm
Accuracy	$\pm 1\%$ of full scale reading in respective range
Temperature	-10 $^{\circ}\text{C}$ to 125 $^{\circ}\text{C}$ (14 $^{\circ}\text{F}$ to 257 $^{\circ}\text{F}$)
Resolution	0.1 $^{\circ}\text{C}$ (0.1 $^{\circ}\text{F}$)
Relative Accuracy	± 0.5 $^{\circ}\text{C}$ (± 0.9 $^{\circ}\text{F}$)
Sensor	Pt100 (3 wire / 2 wire)
Temperature Compensation	Auto/Manual
Cell Constant	User-selectable (0.10 to 10.00)
Temperature Coefficient	0 to 10% (selectable)
Normalisation Temperature	20.0 $^{\circ}\text{C}$ to 25 $^{\circ}\text{C}$
Display	Dual Display Custom LCD
Power Requirements	110 or 220 VAC to 9 V DC Adapter
Dimension	96 x 96 x 66 mm (3.78 x 3.78 x 2.6 inch)
Weight	210 g