

CONDUCTIVITY TRANSMITTER

Sr#	Description	Qty
1	<u>2-Wire Conductivity Transmitter</u> <ul style="list-style-type: none">• Model: Alpha Cond 500 or Equivalent• Make: EUTECH Instruments (Thermo Scientific) or Equivalent	21
Notes: <ul style="list-style-type: none">a. Technical datasheet of the specified model is attached for reference. Equivalent models from other manufacturers are acceptable.b. Technical literature of the offered items must be provided with the quotation.c. Make and country of origin of the offered items should be mentioned in the quotation.		

Thermo Scientific Alpha COND 500

Conductivity 2-Wire Transmitter

Product Features



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The Alpha COND 500 transmits clear, uninterrupted conductivity readings simultaneously with temperature across six conductivity ranges. User-friendly and cost efficient, the transmitter features advances self-diagnostic capabilities, low maintenance requirements, and comes with a large LCD screen to double up as a monitor.

- :: ± 1 % accuracy across six Conductivity ranges
- :: Push-button calibration – quick, easy, no hassle
- :: High quality, high resolution output at chart printers and other secondary devices
- :: Reliable, accurate measurements at different temperature with Automatic Temperature Compensation
- :: Offset Adjustment Function allows you to adjust readings conveniently without having to remove electrode from the measurement tank or pipe

Specifications

Product Specification	Description
Conductivity	
Range	... to 19.99 $\mu\text{S/cm}$; ... to 199.9 $\mu\text{S/cm}$; ... to 1999 $\mu\text{S/cm}$; ... to 10.00 mS/cm ; ... to 19.99 mS/cm ; ... to 199.9 mS/cm
Resolution	0.01 $\mu\text{S/cm}$; 0.1 $\mu\text{S/cm}$; 1 $\mu\text{S/cm}$; 0.01 mS/cm ; 0.1 mS/cm
Accuracy	± 1 % full scale
Cell Constant	$k = 0.1, 1.0, 10.0$
Temperature	
Range	0.0 to 110.0 $^{\circ}\text{C}$
Resolution	0.1 $^{\circ}\text{C}$
Accuracy	± 0.5 $^{\circ}\text{C}$
Sensor	Pt100; 2 or 3 wire
Compensation	Auto/manual
Coefficient	0 to 10 % (selectable)
Normalization	20.0 to 25.0 $^{\circ}\text{C}$ (selectable)
Transmitter	

Transmitter Function	4 to 20 mA scalable outputs for Conductivity
Out-Of-Range Current Output	3.8 mA: 'ON' select selects 3.8 mA 'OFF' selects 4 mA (under range) Selects 20 mA (over range)
Hold Current Output	22 mA: 'ON' select selects 22 mA 'OFF' selects last measured current value
Load	Max. 600 Ohm
Electrical Data And Connections	
Conductivity Input	2-pin terminal
Connection Terminal	3-pin & 8-pin terminal, detachable blocks
Display	
LCD	7 segments display with symbols for status information
Power Supply	
Input	12 to 24 VDC
EMC Specifications	
Emitted Interference	According to EN 61326
Immunity To Interference	According to EN 61326
Environmental Conditions	
Operating Temperature Range	0 to 40 °C
Max. Relative Humidity	80 % up to 31 °C decreasing linearly to 50 % at 40 °C
Mechanical Specifications	
Dimensions (WxHxD)	96 x 96 x 66 mm
Weight	210 g (unit) / 310 g (packed)
Ingress Protection	IP65

Order Information

Order No.	Item
TSCONCTP0500	Alpha COND 500 wall/panel-mount Conductivity 2-wire transmitter with 4-20 mA output and 12-24 V DC. Incl. cable glands, terminal blocks, gasket, threaded rods, catch, etc