

Specifications

Alpha CON 2000		
Measuring range No	Conductivity Measuring range	Resolution
1	... to 2.000 $\mu\text{S}/\text{cm}$	0.001 $\mu\text{S}/\text{cm}$
2	... to 20.00 $\mu\text{S}/\text{cm}$	0.01 $\mu\text{S}/\text{cm}$
3	... to 200.0 $\mu\text{S}/\text{cm}$	0.1 $\mu\text{S}/\text{cm}$
4	... to 2000 $\mu\text{S}/\text{cm}$	1 $\mu\text{S}/\text{cm}$
5	... to 20.00 mS/cm	0.01 mS/cm
6	... to 200.0 mS/cm	0.1 mS/cm
7	... to 1000 mS/cm	1 mS/cm
Relative accuracy	$\pm 1\%$ of full scale reading ($\pm 2\%$ $>500 \text{ mS}/\text{cm}$)	
Temperature range	-10.0 to + 125.0 $^{\circ}\text{C}$ (14.0 to 257.0 $^{\circ}\text{F}$)	
Resolution	0.1 $^{\circ}\text{C}$ / $^{\circ}\text{F}$	
Relative Accuracy	$\pm 0.5 \text{ }^{\circ}\text{C}$ ($\pm 1.0 \text{ }^{\circ}\text{F}$)	
Sensor	Pt100 / Pt1000 (jumper selectable); 2 or 3 wire	
Temperature Compensation	Auto / manual (normalized at 25 $^{\circ}\text{C}$)	
Set-point and Controller Functions		
Function (switchable)	P/PI control (pulse length/pulse frequency); limit control	
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 2000 seconds	
Wash cycle	0.1 to 199.9 hours	
Wash duration	1 to 1999 seconds	
Switching conductivity hysteresis	0 to 10 % of full scale	
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	
Switching voltage / current / power	Max. 250 VAC / Max 3A / Max 600VA	
Display		
LCD	UV coat, backlit 14 segments display with symbols for status information	
Backlight	On/Off selectable with four level of brightness control	
Electromagnetic Compliance (EMC) Specifications		
Emitted Interference	According to EN 50081-1	
Immunity to Interference	According to EN 50082-1	
Environmental Conditions		
Ambient temperature operating range	0 to 40 $^{\circ}\text{C}$	
Maximum Relative humidity	80% up to 31 $^{\circ}\text{C}$ decreasing linearly to 50% at 40 $^{\circ}\text{C}$	
Power Supply		
Input	80 to 250 VAC/DC 50/60 Hz Approx. 10VA	
Main Fuse	250 mA anti-surge, S504 BUSSMANN	
Pollution Degree	2	
Transient Overvoltage category	II	
Electrical Data and Connections		
Signal Output	Two 0/4 to 20 mA outputs for conductivity and temperature, galvanically isolated	
Load	Max. 600 W	
Conductivity input	Screw terminal	
Connection terminal (Wall mount)	5-pin, 8-pin, 9-pin and 13-pin terminal, detachable blocks	
Connection terminal (Panel mount)	5-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 (Packed)
	Panel Mount	550g (unit) / 950g (Packed)
Environmental Rating	Wall Mount	IP 65 (NEMA 4X)
	Panel Mount	IP54 (front panel)

Ordering Information

Alpha CON 2000 Conductivity Controller/Transmitter – Wall mount	ECCONCTP2000W
Alpha CON 2000 Conductivity Controller/Transmitter – Panel mount	ECCONCTP2000P