Conductivity, TDS, Resistivity, Salinity



ProCøn







Instrument type

- Large color LCD display
- Intelligent menu operation
- O Data recording / curve display
- ✓ Multiple automatic SimplCal® calibration
- Manual and automatic temperature compensation
- 4-20mA & RS485 outputs
- Multi-parameter display simultaneously shows conductivity and temperature
- Password protection

### **High Performance Industrial Controller Analyzer**

The ProCon® C500/C520 series is an extremely robust industrial conductivity controller analyzer.

The modular design is both easy to install and operate providing first measurement values in under one minute.

The C500/C520 is packed with all the extra features included, no need to pay extra for relay, 4-20mA or RS485 outputs.

The SimplCal® feature makes calibrating your sensor easier and quicker than ever before.

The cost-saving quick and simple setup is done through our user-friendly step-by-step on-screen menu.

Active display of red alarm alert provides notification of out-of-bounds sensor readings and indication for sensor cleaning, recalibration or replacement.

#### **Enclosure**

The C500/C520 is packaged in a rugged polycarbonate enclosure making it ideally suited for heavy-duty applications. A mounting kit is included for surface and panel mounting. Pipe mounting kits are available.

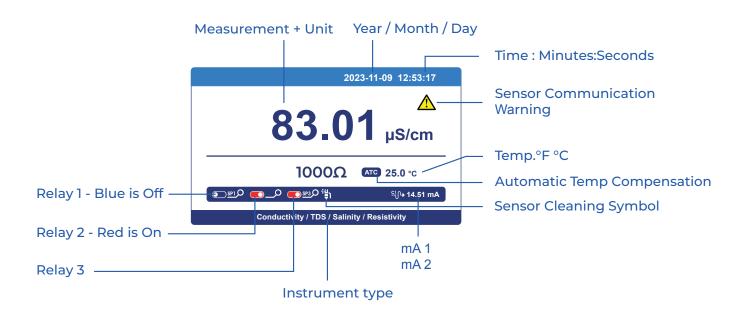
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## **Display Descriptions**



All electrical connections should be checked before use. After the power is switched on, the meter will display as follows.



#### Measurement Mode



#### **Calibration Mode**

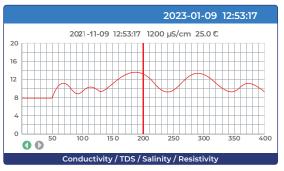
Note: New Sensors are Factory Calibrated



### Programming Mode



### **Data Logging Trend Chart**



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# **Technical Specifications**



Measuring Range	0 – 500mS/cm
Resolution	0.1µS/cm   0.01mS/cm
Intrinsic Error	±0.5% F.S
Resistivity	0 – 18.25MΩ/cm
Resolution	0.01KΩ/cm   0.01MΩ/cm
TDS	0 – 250g/L
Resolution	0.01mg/L   0.01g/L
Salinity	0 – 700ppt
Resolution	0.01ppm   0.01ppt
Working Temperature	32 – 302°F   0 – 150°C
Temperature Compensation	Automatic or Manual
Outputs	Two (2) 4–20mA   20–4mA   0–20mA
Communication	RS485 MODBUS RTU
Relay Control Contact	5A 240VAC   5A – 28VDC
Power Supply	9 – 36VDC (std)   85 – 265VAC   Power Consumption 3W
Environmental Temperature	14-140°F   -10-60°C
Relative Humidity	≤ 90%
Enclosure Rating	IP65
Weight	0.7kg
Dimensions	144 × 144 × 118mm
Installation Opening Size	138 × 138mm
Installation methods	Panel   Pipe   Wall
Other functions	Data record & Curve display





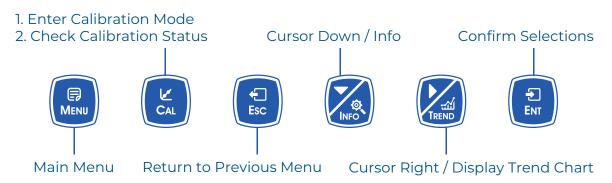


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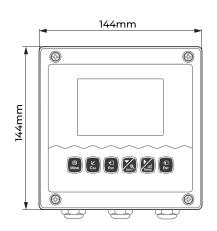


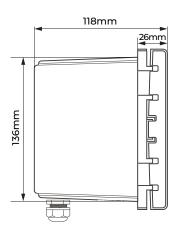
## **Keypad Descriptions**



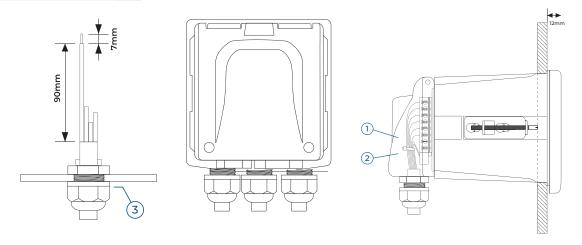


## **Dimensions**





### **Instrument Installation**



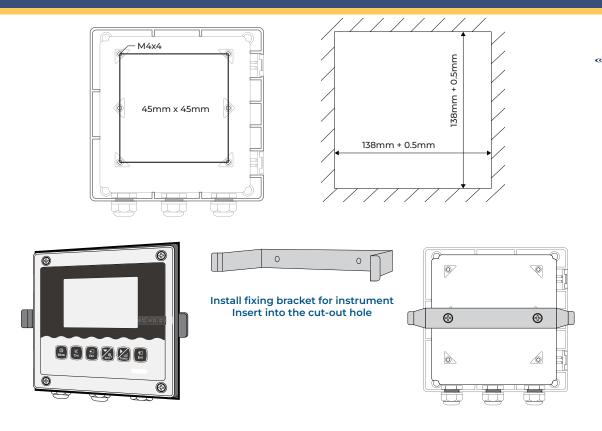
- 1. Cable (Recommended stripping length for cables is at least 90mm)
- 2. Cable ties
- 3. Waterproof cable glands



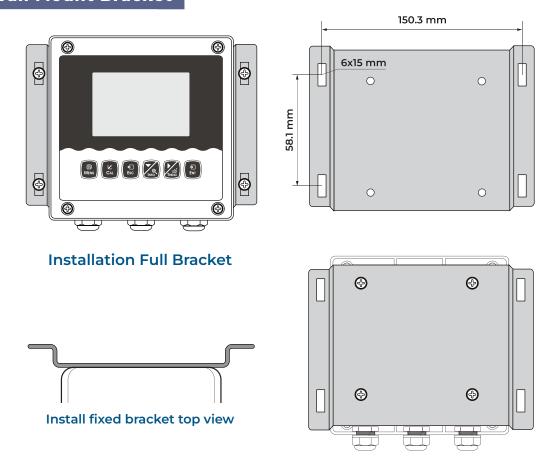
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**ProCen**®



## Slim Line Wall Mount Bracket



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## **Typical Application**







## **Model Selection**

C500 — Conductivity Controller (Single Data Trending)							
Part Number	Power	Output	Power Cord	Display 1	Display 2		
C500-4-D-N-C-0	24VDC	4-20mA + 3 Relays	No	Conductivity	Single Display		
C500-4-D-Y-C-0	24VDC	4-20mA + 3 Relays	Yes	Conductivity	Single Display		

Communication: RS-485 RTU Modbus

C520 — Conductivity Controller (Dual Data Trending)							
	Part Number	Power	Output	Power Cord	Display 1	Display 2	
C!	520-4-D-N-C-P	24VDC	4-20mA + 3 Relays	No	Conductivity	pH/ORP	
C	520-4-D-Y-C-P	24VDC	4-20mA + 3 Relays	Yes	Conductivity	pH/ORP	
C!	520-4-D-N-C-C	24VDC	4-20mA + 3 Relays	No	Conductivity	Conductivity	
C	520-4-D-Y-C-C	24VDC	4-20mA + 3 Relays	Yes	Conductivity	Conductivity	

Communication: RS-485 RTU Modbus

