Conductivity, TDS, Resistivity, Salinity









Large color LCD display



- Intelligent menu operation
- O Data recording / curve display
- ✓ Multiple automatic SimplCal® calibration
- Manual and automatic temperature compensation
- ✓ Three (3) relays
- 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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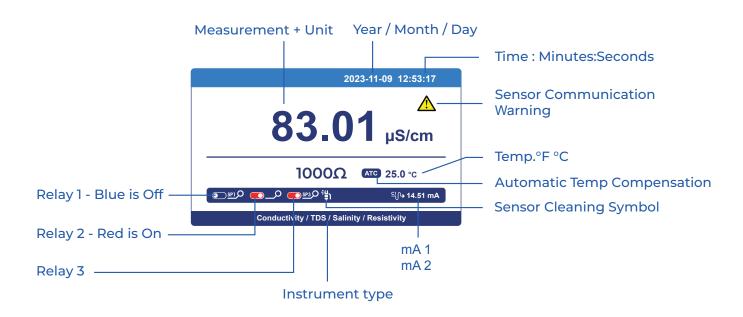


Display Descriptions



2

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



Measurement Mode



Calibration Mode

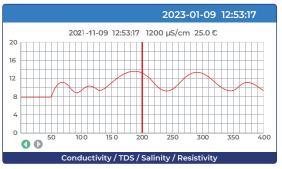
Note: New Sensors are Factory Calibrated



Programming Mode



Data Logging Trend Chart



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Technical Specifications



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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		



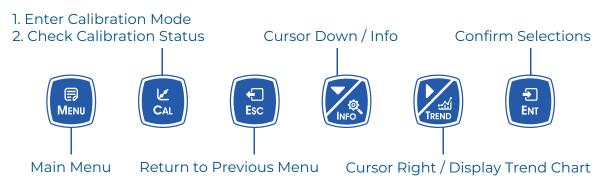


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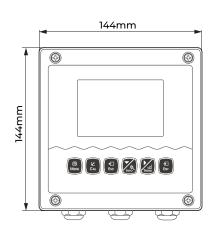


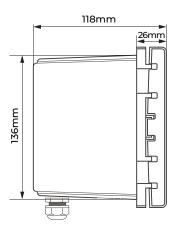
Keypad Descriptions



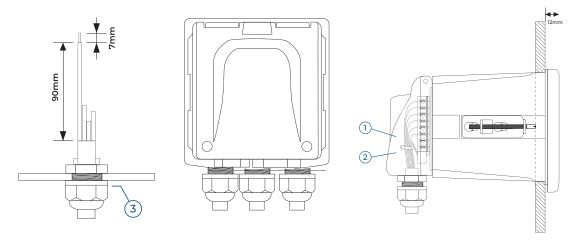


Dimensions





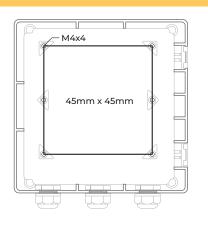
Instrument Installation

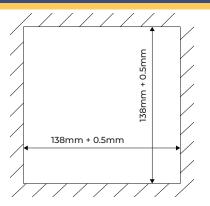


- 1. Cable (Recommended stripping length for cables is at least 90mm)
- 2. Cable ties
- 3. Waterproof cable glands

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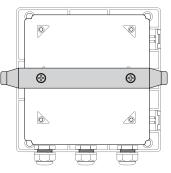




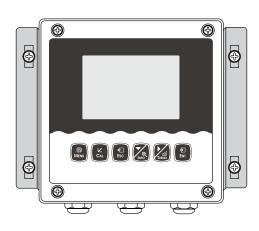


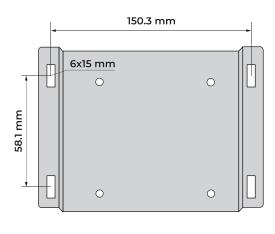


Insert into the cut-out hole



Slim Line Wall Mount Bracket





Installation Full 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		
C520-4-D-N-C-P	24VDC	4-20mA + 3 Relays	No	Conductivity	pH/ORP		
C520-4-D-Y-C-P	24VDC	4-20mA + 3 Relays	Yes	Conductivity	pH/ORP		
C520-4-D-N-C-C	24VDC	4-20mA + 3 Relays	No	Conductivity	Conductivity		
C520-4-D-Y-C-C	24VDC	4-20mA + 3 Relays	Yes	Conductivity	Conductivity		

Communication: RS-485 RTU Modbus

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