

C500 | C520 Series Controller

Conductivity, TDS, Resistivity, Salinity



Corrosion-Free
Instrumentation Equipment



C520 Dual Display ▶

- ✓ Large color LCD display
- ✓ Intelligent menu operation
- ✓ 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.

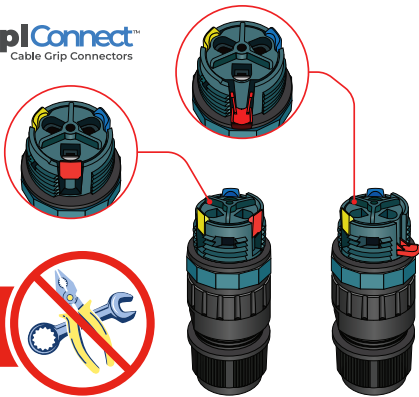
The SimplCal® feature makes calibrating your sensor easier and quicker than ever before.

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

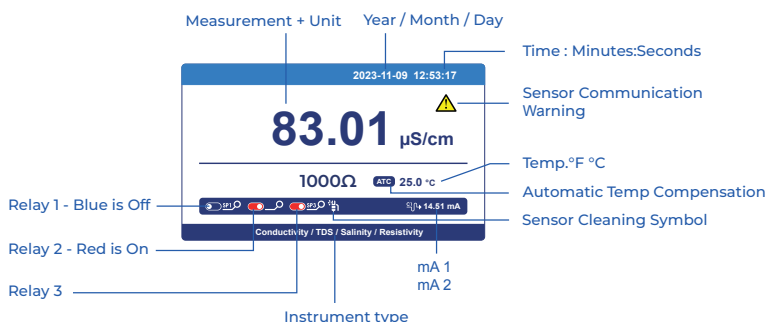
Active display of red alarm alert provides notification of out-of-bounds sensor readings and indication for sensor cleaning, recalibration or replacement.

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.



Cable Grip Wire Connector Combo (no internal wiring required)



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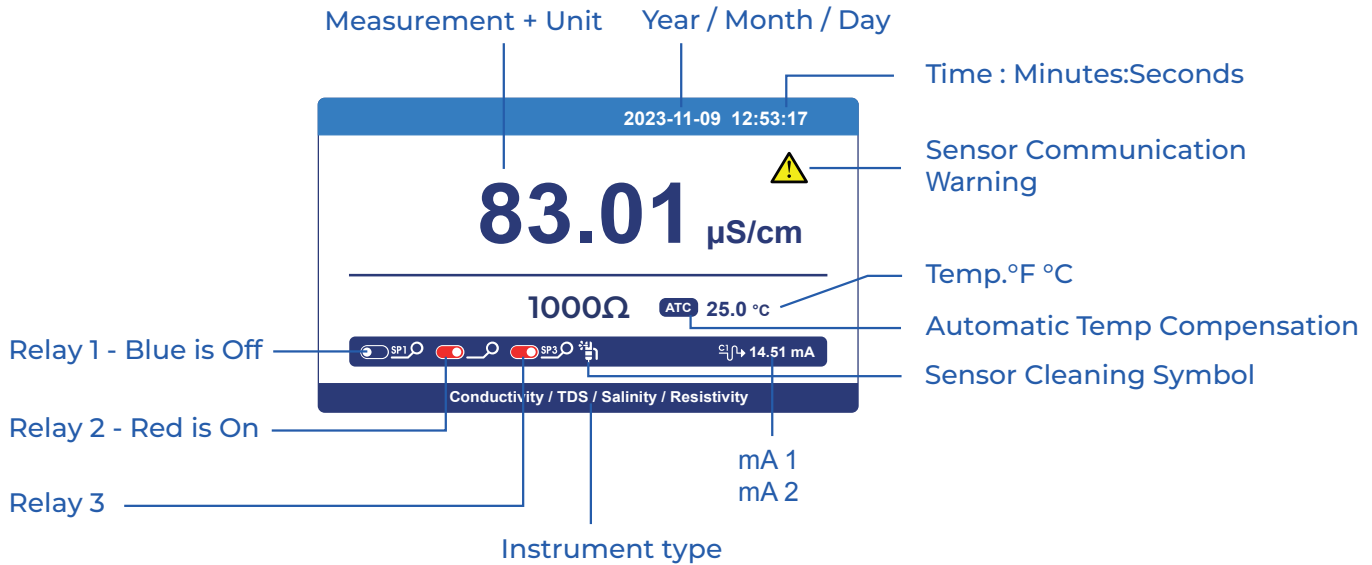


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Display Descriptions



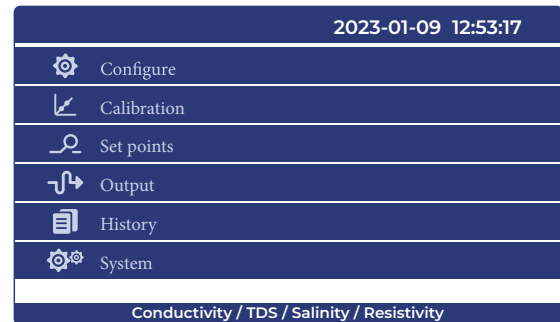
All electrical connections should be checked before use. After the power is switched on, the meter will display as follows.



Measurement Mode



Programming Mode

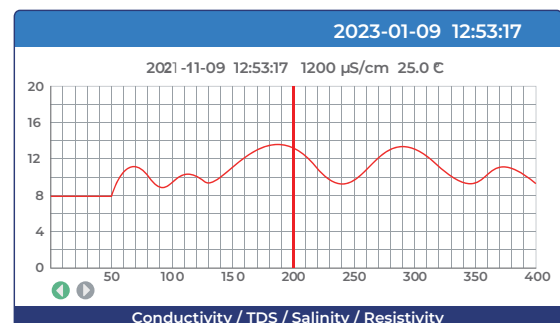


Calibration Mode

Note: New Sensors are Factory Calibrated



Data Logging Trend Chart



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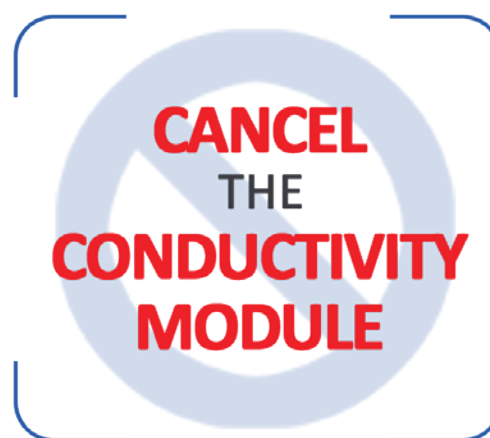


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Technical Specifications



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



1. Enter Calibration Mode
2. Check Calibration Status

Cursor Down / Info

Confirm Selections



Main Menu



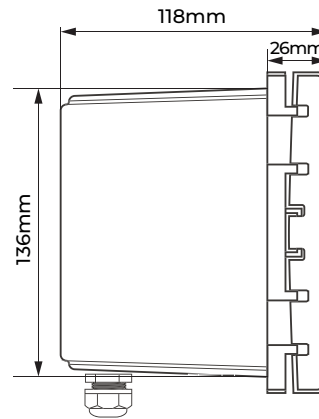
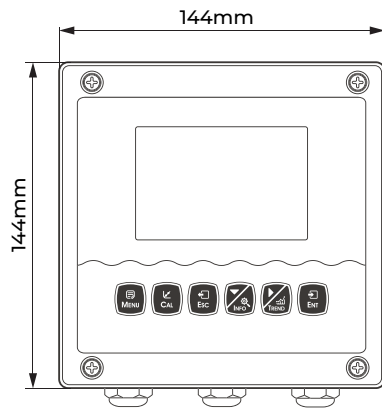
Return to Previous Menu



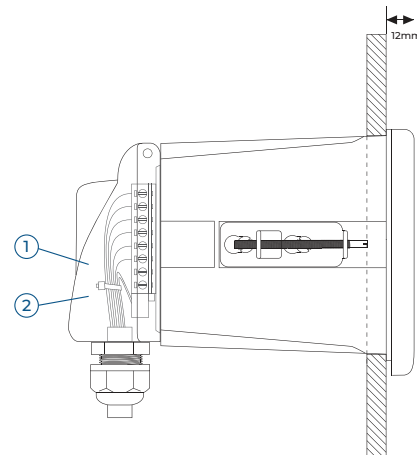
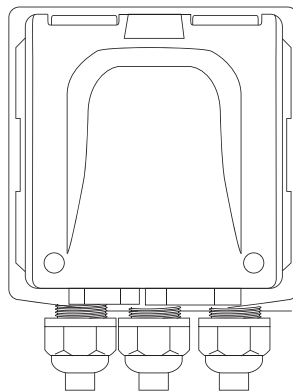
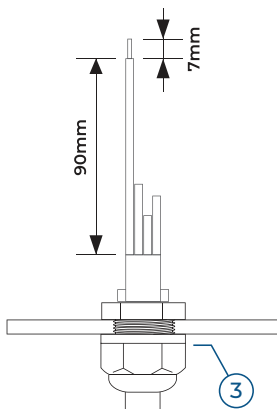
Cursor Right / Display Trend Chart



Dimensions



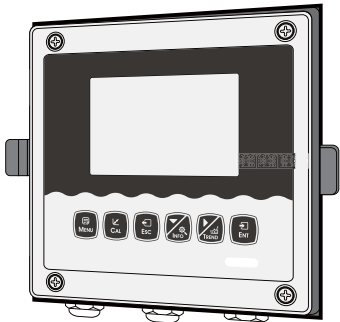
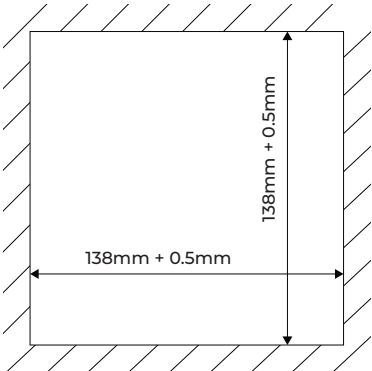
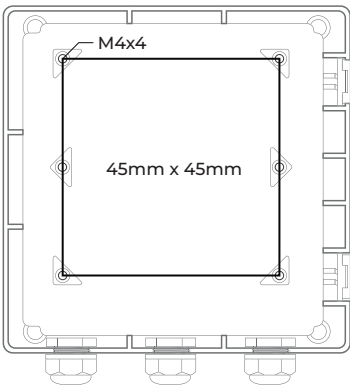
Instrument Installation



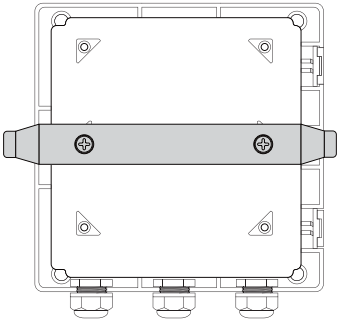
1. Cable (Recommended stripping length for cables is at least 90mm)
2. Cable ties
3. Waterproof cable glands

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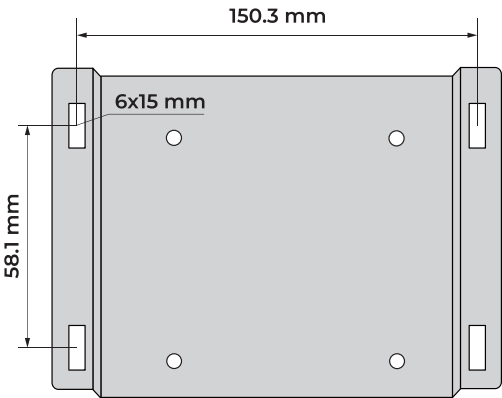
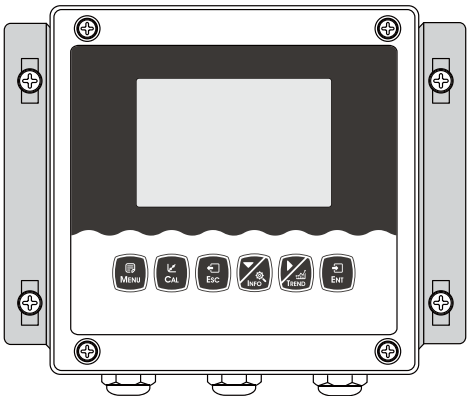
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Install fixing bracket for instrument
Insert into the cut-out hole



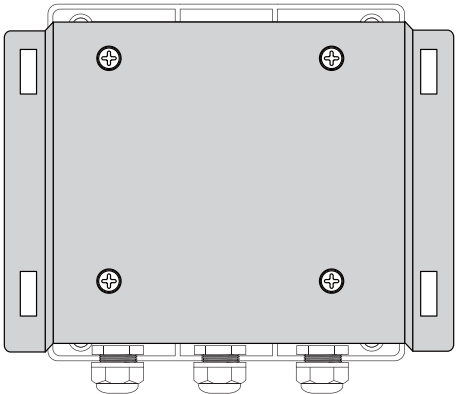
Slim Line Wall Mount Bracket



Installation Full Bracket



Install fixed bracket top view



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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