

C500 | C520 Series Controller

Conductivity, TDS, Resistivity, Salinity



- ✓ 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 multiple output modes
- ✓ Multi-parameter display — simultaneously shows conductivity and temperature
- ✓ Password protection

High Performance Industrial Controller

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

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.

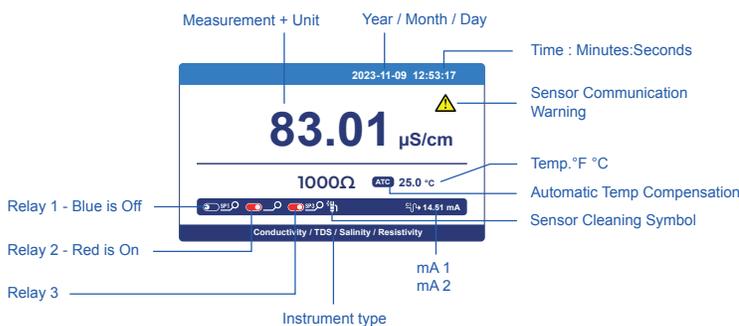
Active display of red alarm LED provides notification of out-of-bounds sensor readings and indication for sensor cleaning/recalibration or replacement.

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.

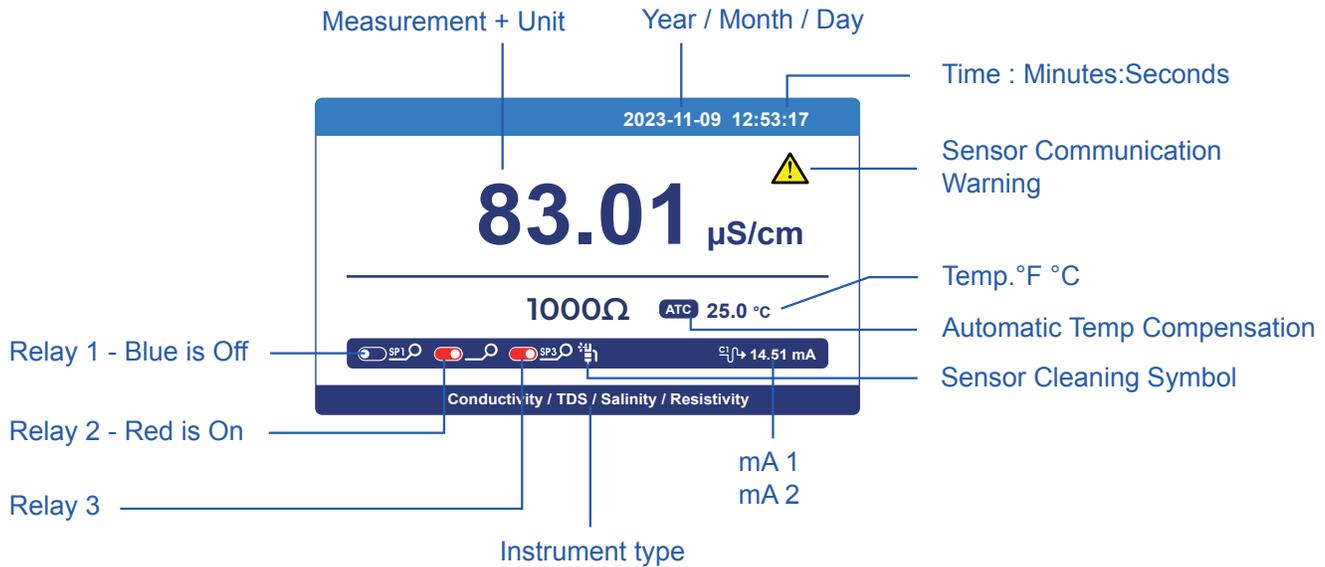
No tools required

Cable Grip Wire Connector Combo
(no internal wiring required)



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

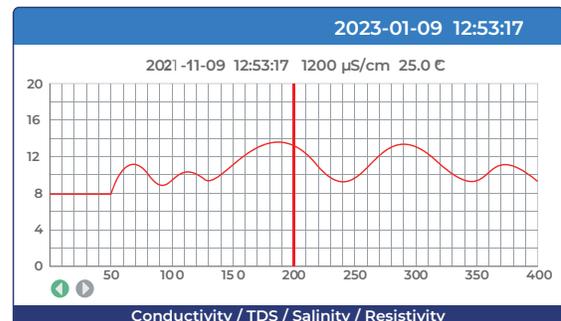


Calibration Mode

Note: New Sensors are Factory Calibrated

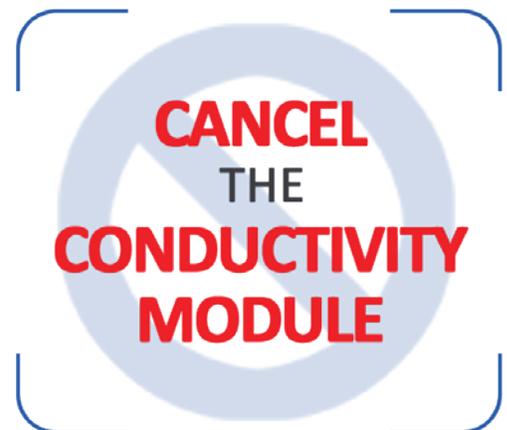
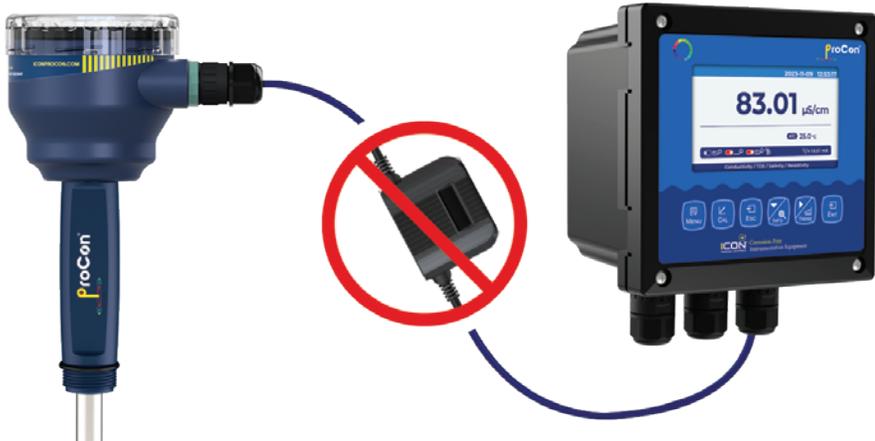


Data Logging Trend Chart



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



Keypad Descriptions

1. Enter Calibration Mode
2. Check Calibration Status



Main Menu



Return to Previous Menu



Cursor Down / Info



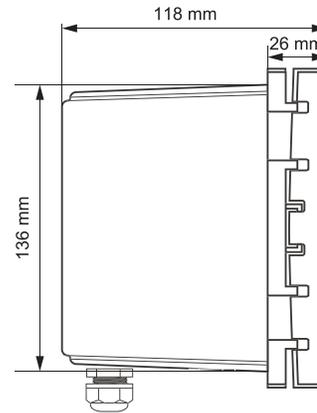
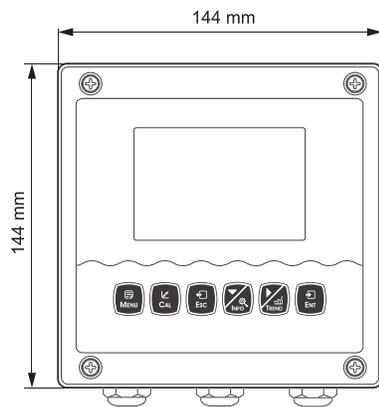
Cursor Right / Display Trend Chart



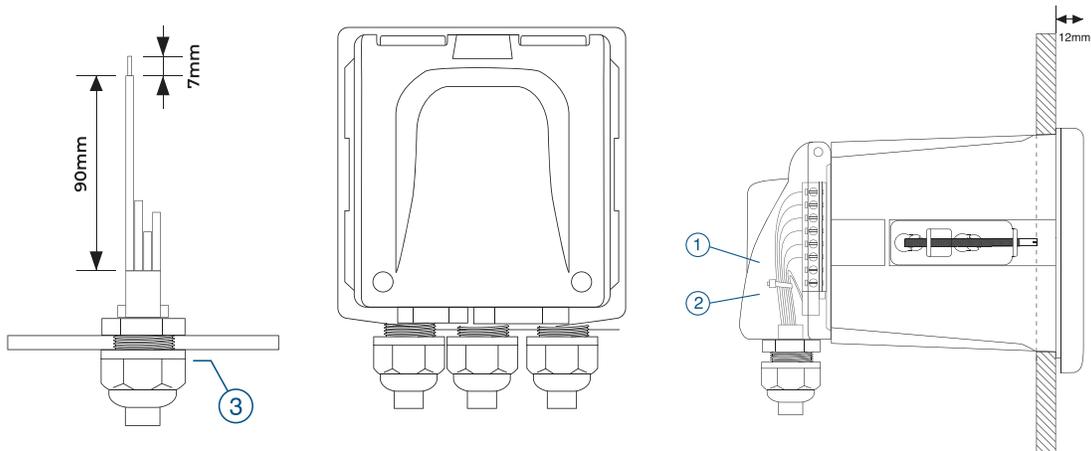
Confirm Selections



Dimensions



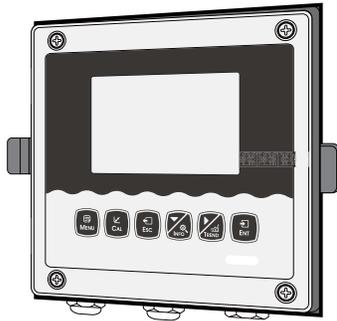
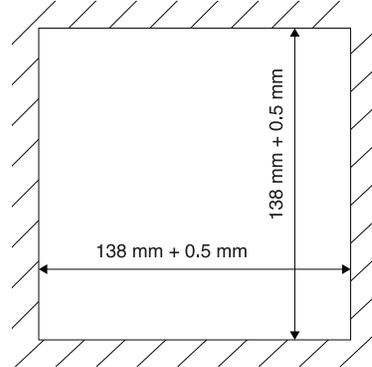
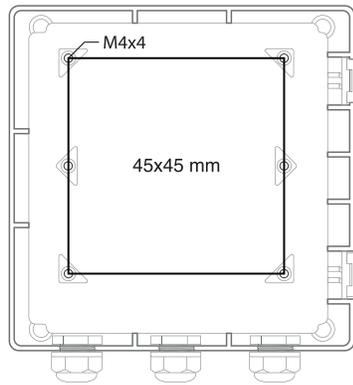
Instrument Installation



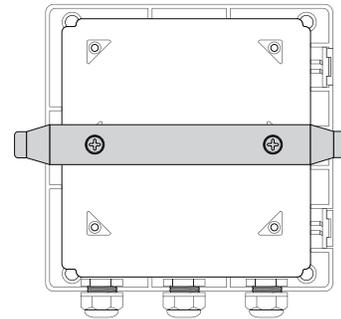
1. Cable (Recommended stripping length for cables is at least 90mm)
2. Cable ties
3. Waterproof cable glands

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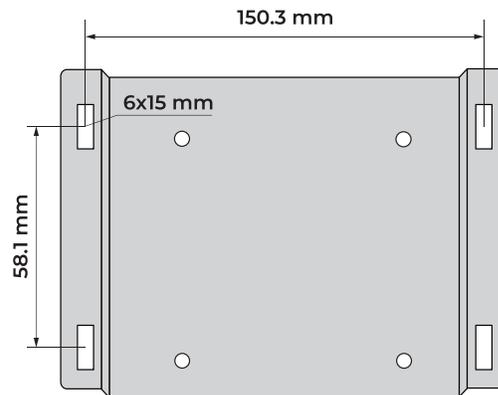
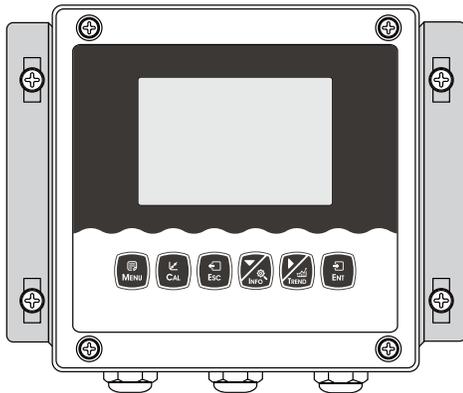
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Install fixing bracket for instrument
Insert into the cut-out hole



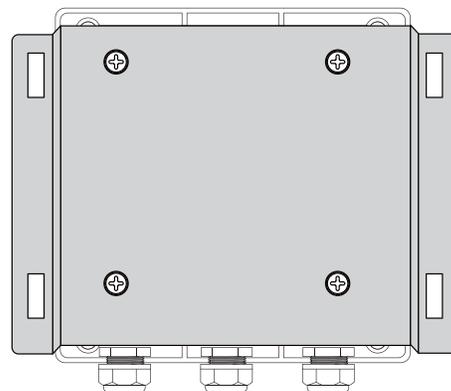
Slim Line Wall Mount Bracket



Installation Full Bracket



Install fixed bracket top view



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Typical Application



Model Selection

C500 - 4 - B - Y - C - 0 (Single Display)

Power	Output	Power Cord	Sensor Type
4: 24VDC (std) 2: 120VAC	B: 3 Relays D: 4-20mA + 3 Relays	Y: Yes N: No	C: Conductivity

C520 - 4 - D - Y - C - C (Dual Display)

Power	Output	Power Cord	Sensor Type #1	Sensor Type #2
4: 24VDC (std) 2: 120VAC	B: 3 Relays D: 4-20mA + 3 Relays	Y: Yes N: No	C: Conductivity	C: Conductivity P: pH/ORP