

C700 | C720 Series Controller

Conductivity, TDS, Resistivity, Salinity



Corrosion-Free
Instrumentation Equipment



- ✓ Large color LCD display
- ✓ Intelligent menu operation
- ✓ Data recording / curve display / data upload function
- ✓ Multiple automatic SimplCal® calibration
- ✓ Double high resistance measurement mode, stable and reliable
- ✓ Manual and automatic temperature compensation
- ✓ Three (3) relays
- ✓ High & low alarm and hysteresis control
- ✓ 4-20mA & RS485 outputs
- ✓ Multi-parameter display — simultaneously shows conductivity and temperature
- ✓ Password protection



High Performance Industrial Controller Analyzer

The ProCon® C700/C720 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 C700/C720 is packed with all the extra features included. No need to pay extra for relays, 4-20mA or RS485 outputs.

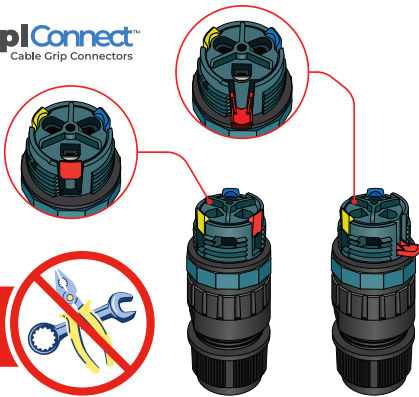
The SimplCal® feature makes calibrating your sensor easier and quicker than ever before.

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

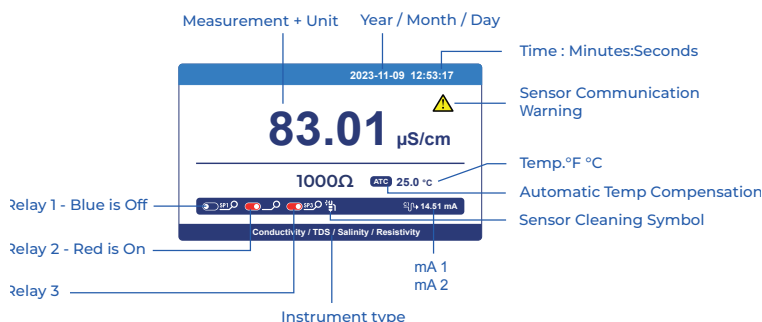
Active display of red alarm alert provides notification of out-of-bounds sensor readings and indication for sensor cleaning, recalibration or replacement.

Enclosure

The C700/C720 is packaged in a rugged polycarbonate enclosure making it ideally suited for heavy-duty applications (including outdoor). A mounting kit is included for wall mounting.



Cable Grip Wire Connector Combo (no internal wiring required)



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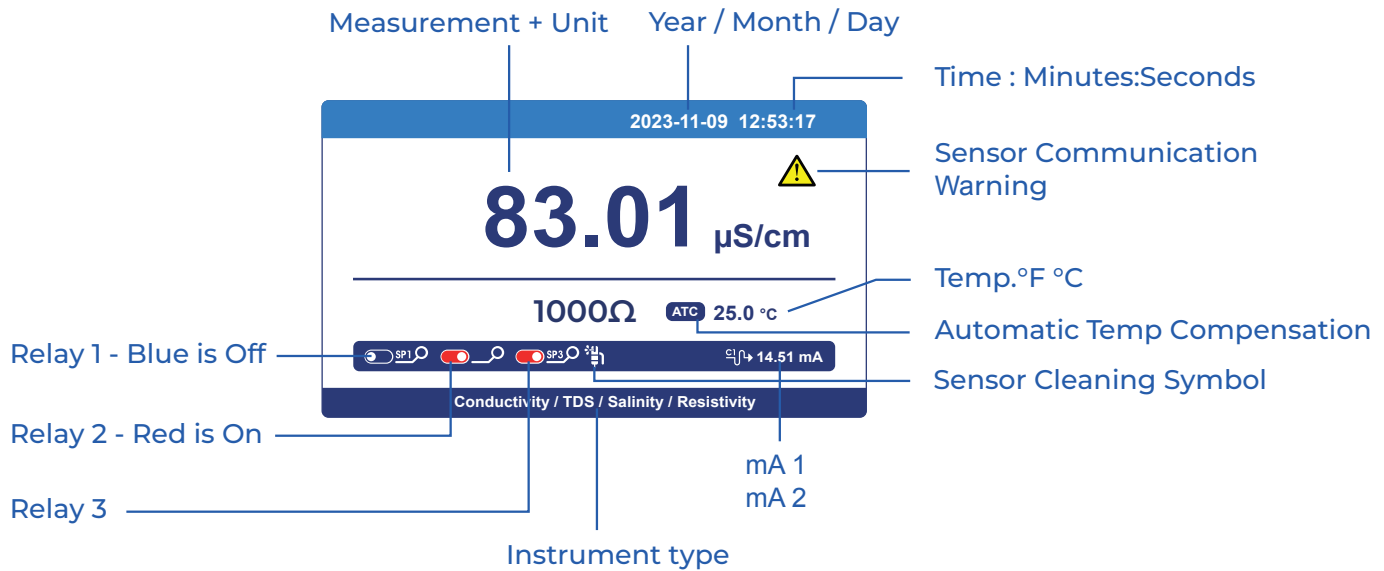


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Display Descriptions



Check all electrical connections before use. The instrument will display as shown in the figure below after the power is turned on.



Measurement Mode



Programming Mode

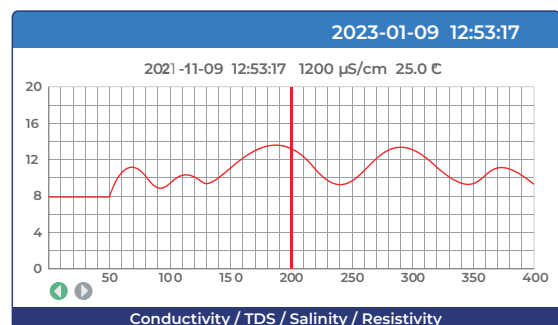


Calibration Mode

Note: New Sensors are Factory Calibrated



Data Logging Trend Chart



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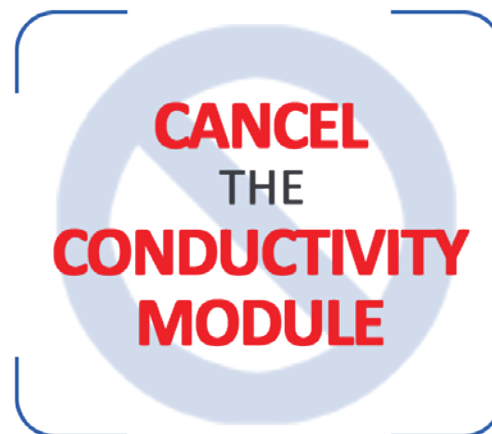


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Technical Specifications



| | |
|---------------------------|--|
| 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 |
| Output2 | 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 | IP66 NEMA 4X |
| Weight | 0.7kg |
| Dimensions | 235 × 185 × 120mm |
| Installation methods | Wall Mount |
| 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



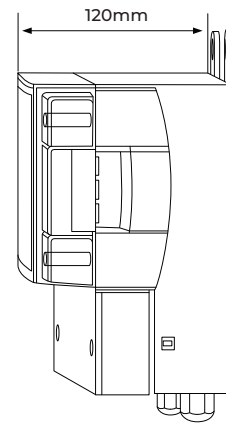
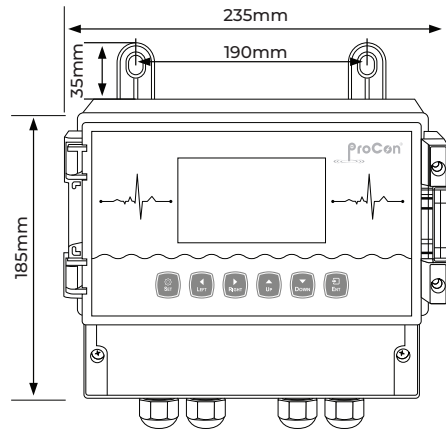
Return to Previous Menu



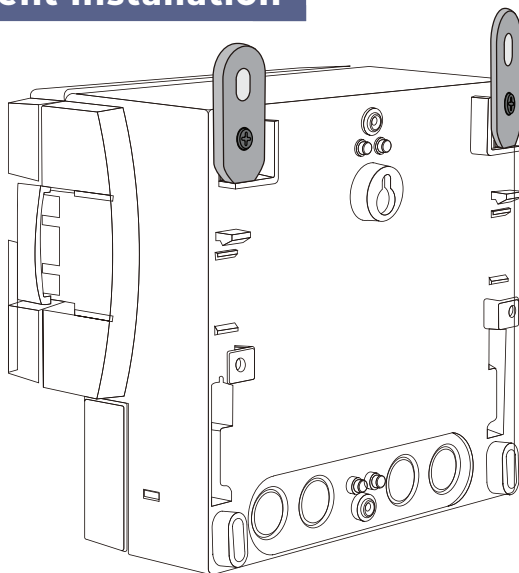
Cursor Right / Display Trend Chart



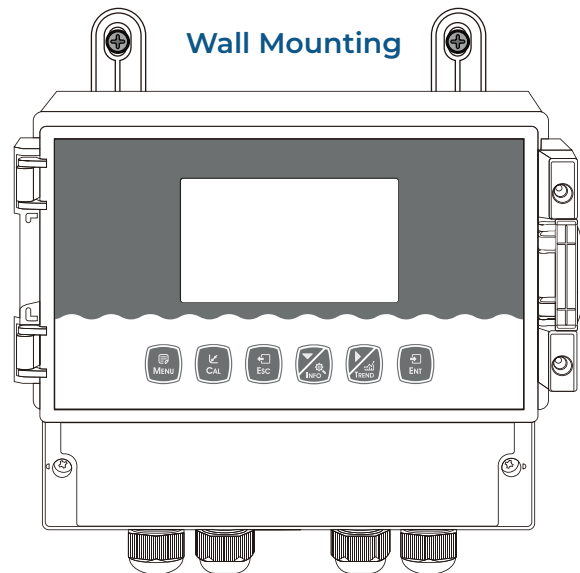
Dimensions



Instrument Installation



Wall Mounting

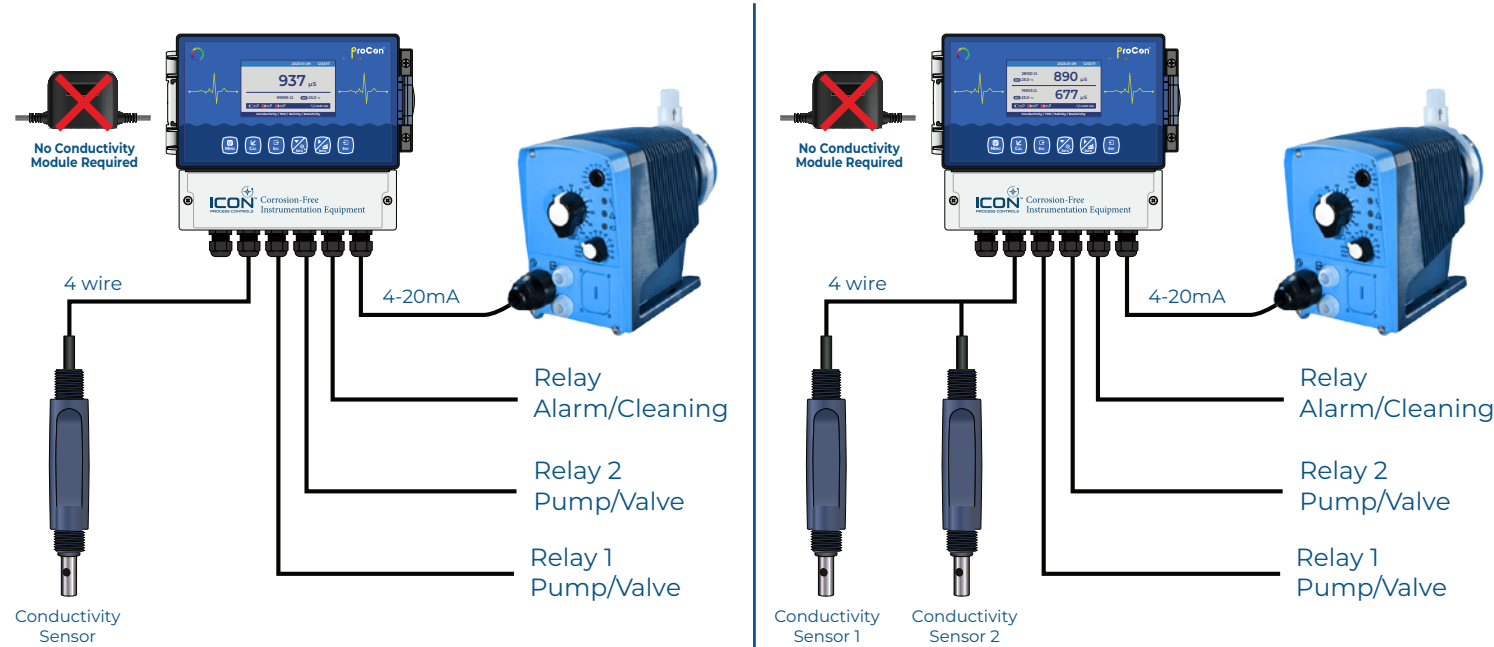


1. Cable (Recommended stripping length for cables is at least 90mm)
2. Cable ties
3. Waterproof cable glands

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Typical Application



Model Selection

C700 — Conductivity Controller (Single Data Trending, NEMA 4X)

| Part Number | Power | Output | Power Cord | Display 1 | Display 2 |
|----------------|-------|-------------------|------------|--------------|----------------|
| C700-4-D-N-C-0 | 24VDC | 4-20mA + 3 Relays | No | Conductivity | Single Display |
| C700-4-D-Y-C-0 | 24VDC | 4-20mA + 3 Relays | Yes | Conductivity | Single Display |

Communication: RS-485 RTU Modbus

C720 — Conductivity Controller (Dual Data Trending, NEMA 4X)

| Part Number | Power | Output | Power Cord | Display 1 | Display 2 |
|----------------|-------|-------------------|------------|--------------|--------------|
| C720-4-D-N-C-P | 24VDC | 4-20mA + 3 Relays | No | Conductivity | pH/ORP |
| C720-4-D-Y-C-P | 24VDC | 4-20mA + 3 Relays | Yes | Conductivity | pH/ORP |
| C720-4-D-N-C-C | 24VDC | 4-20mA + 3 Relays | No | Conductivity | Conductivity |
| C720-4-D-Y-C-C | 24VDC | 4-20mA + 3 Relays | Yes | Conductivity | Conductivity |

Communication: RS-485 RTU Modbus