

# 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.

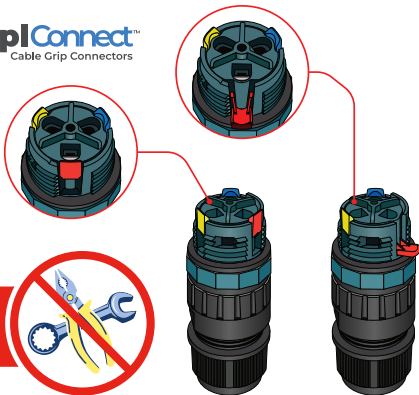
The SimplCal® feature makes calibrating your sensor easier and quicker than ever before.

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

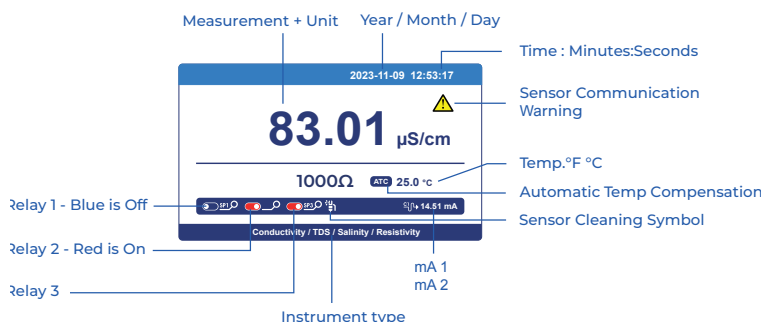
Active display of red alarm alert provides notification of out-of-bounds sensor readings and indication for sensor cleaning, recalibration or replacement.

### 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)



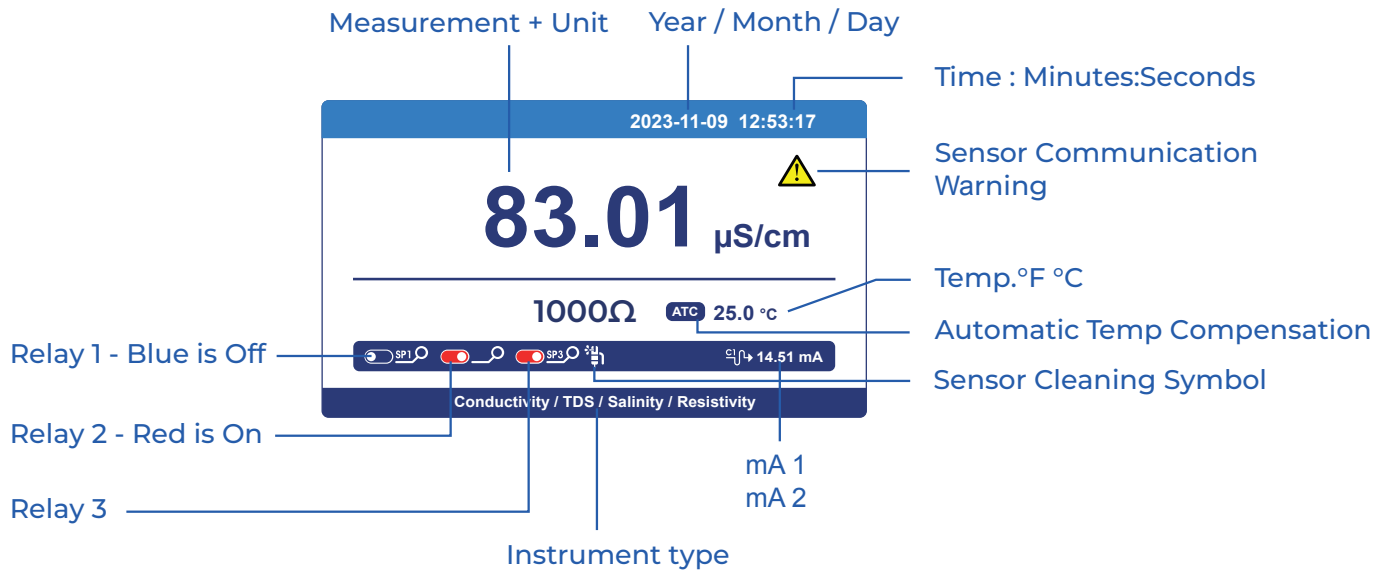
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### Display Descriptions



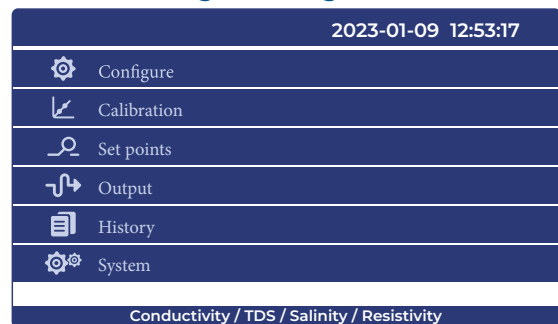
Check all electrical connections before use. The instrument will display as shown in the figure below after the power is turned on.



#### Measurement Mode



#### Programming Mode

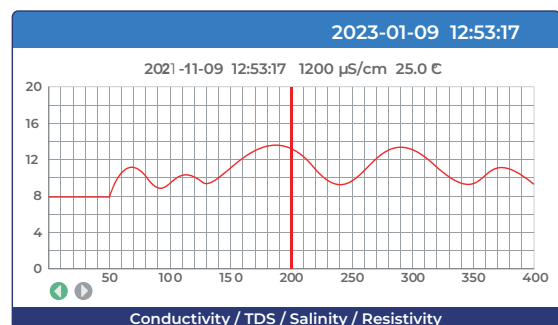


#### Calibration Mode

Note: New Sensors are Factory Calibrated



#### Data Logging Trend Chart



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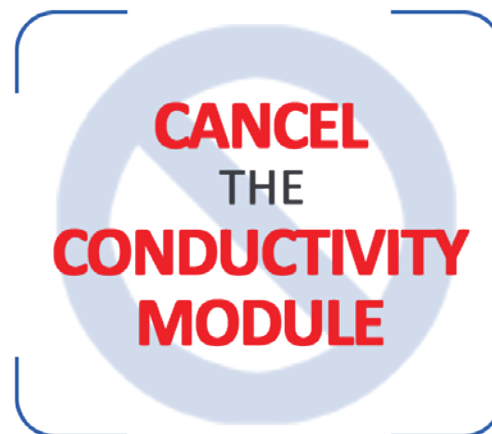


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### Technical Specifications



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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Instrumentation Equipment

### Keypad Descriptions



1. Enter Calibration Mode
2. Check Calibration Status

Cursor Down / Info

Confirm Selections



Main Menu



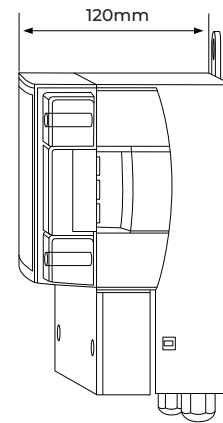
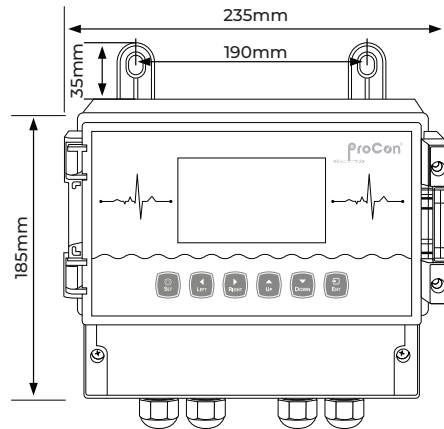
Return to Previous Menu



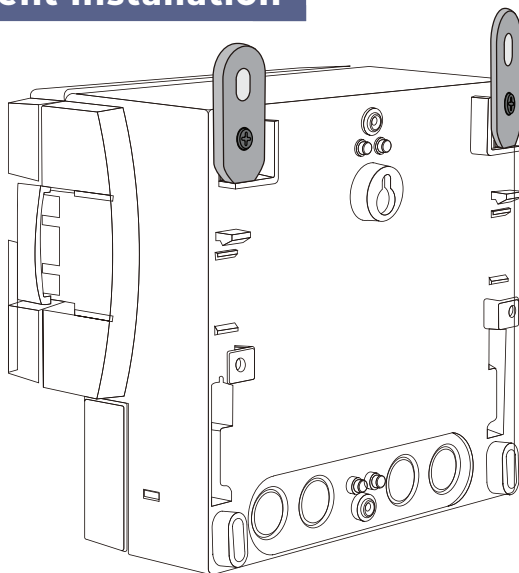
Cursor Right / Display Trend Chart



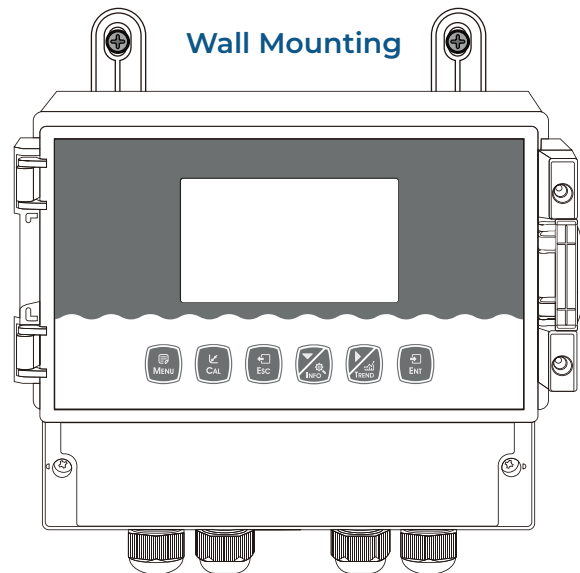
### Dimensions



### Instrument Installation



Wall Mounting

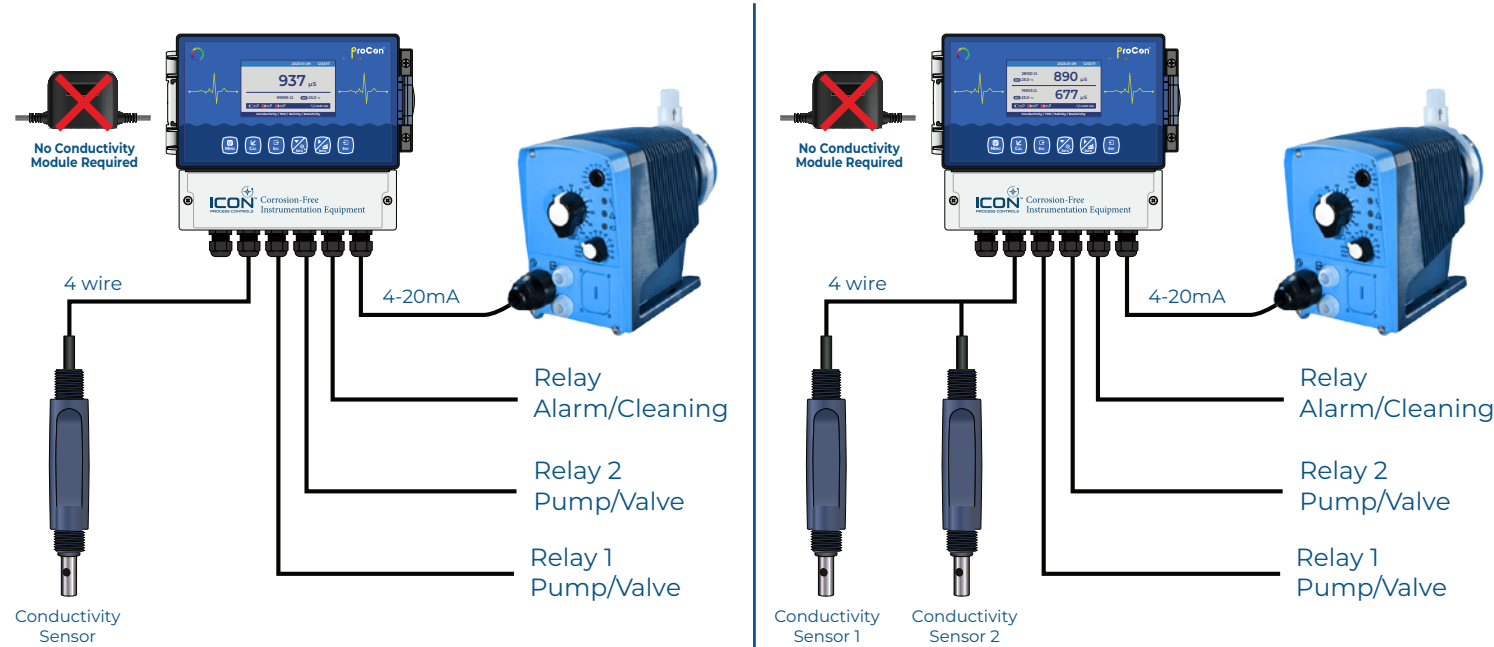


1. Cable (Recommended stripping length for cables is at least 90mm)
2. Cable ties
3. Waterproof cable glands

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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