

ProCon® — D500 | D520 Series

Digital pH/ORP Controller Analyzer



Corrosion-Free
Instrumentation Equipment

DATA SHEET



Please call:

BURT PROCESS EQUIPMENT

800-577-8111 for SALES and SUPPORT.

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ProCon® — D500 | D520 Series

Digital pH/ORP Controller Analyzer



- ✓ Large color LCD display
- ✓ Intelligent menu operation
- ✓ Data recording / curve display
- ✓ Multiple automatic SimpliCal® calibration
- ✓ Manual and automatic temperature compensation
- ✓ Three (3) relays
- ✓ 4-20mA & RS485 outputs
- ✓ Multi-parameter display — simultaneously shows pH, ORP and temperature
- ✓ Password protection



High Performance Industrial Controller Analyzer

The ProCon® D500/D520 series is an extremely robust industrial pH/ORP controller analyzer.

The modular design is both easy to install and operate providing first measurement values in under one minute.

The D500/D520 is packed with all the extra features included, no need to pay extra for relay, 4-20mA or RS485 outputs.

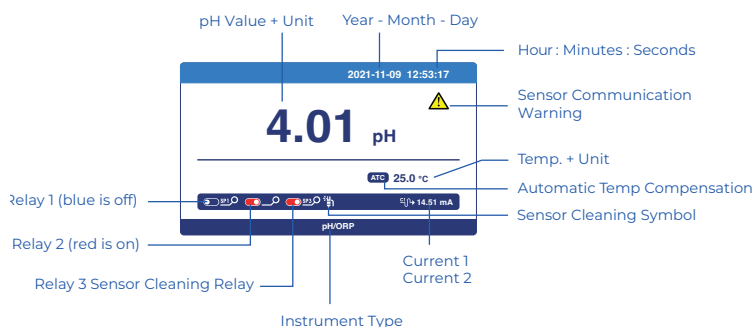
The SimpliCal® feature makes calibrating your sensor easier and quicker than ever before.

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 D500/D520 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.

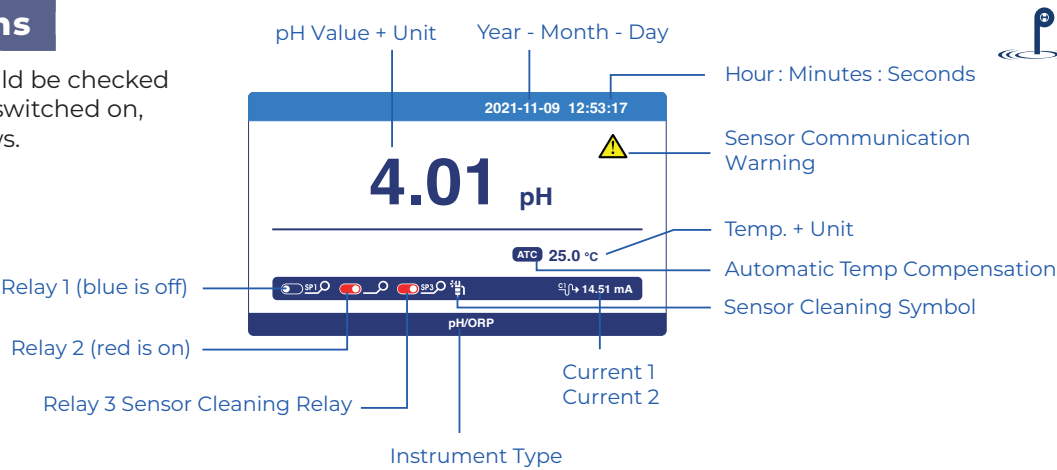


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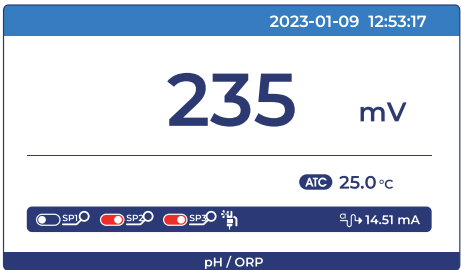
Digital pH/ORP Controller Analyzer

Display Descriptions

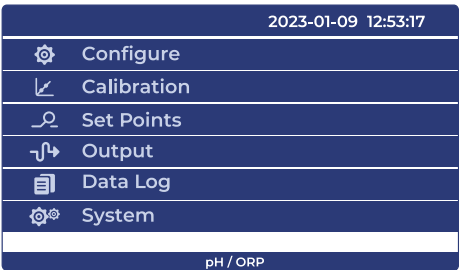
All electrical connections should be checked before use. After the power is switched on, the meter will display as follows.



Measurement Mode



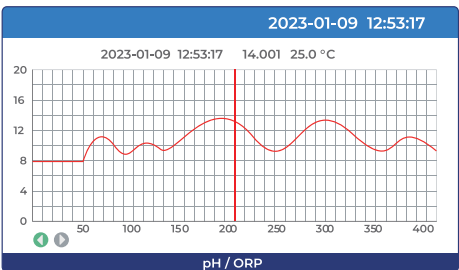
Programming Menu



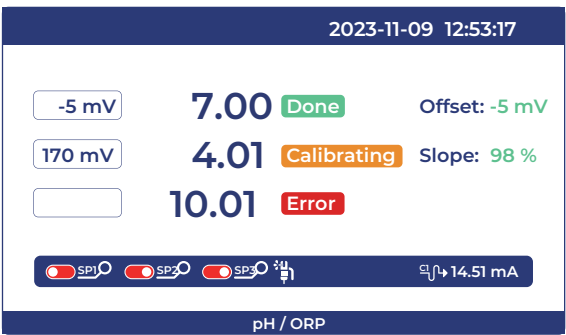
Calibration Mode



Trend Chart Data Logging Display



SimplCal® Calibration



pH Calibration



ORP Calibration

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Technical Specifications



Measuring Range	pH: -2 – 16pH ORP: -2000 – +2000mV
Unit	pH mV
Resolution	pH: 0.001pH ORP: 1mV
Basic Error	pH: 0.001pH ORP: 1mV
Temperature Range	14 – 302°F -10 – 150°C (Sensor Selection Dependant)
Temperature Resolution	0.18°F 0.1°C
Temperature Accuracy	±0.54°F ±0.3°C
Temperature Compensation	Manual or Automatic
Stability	pH: 0.01pH/24h ORP: 1mV/24h
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
Working 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



**PREEMPT
THE
PREAMP**

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Keypad Descriptions



1. Enter Calibration Mode
2. Check Calibration Status

Cursor Down / Info

Confirm Selections



Main Menu



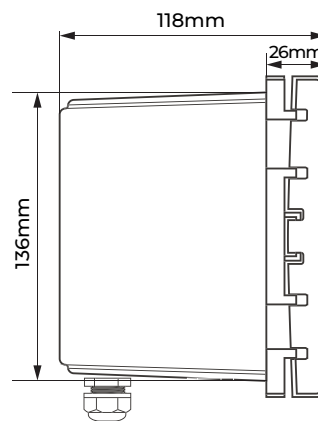
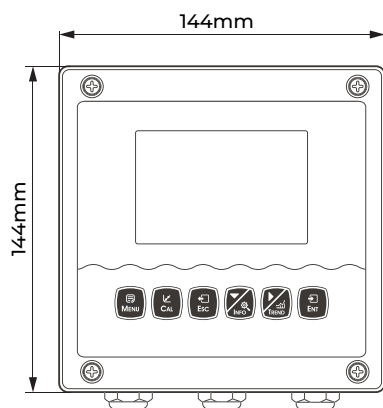
Return to Previous Menu



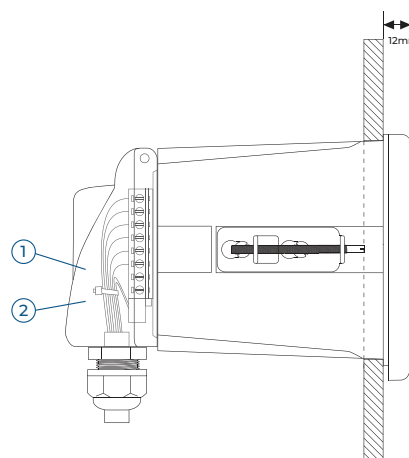
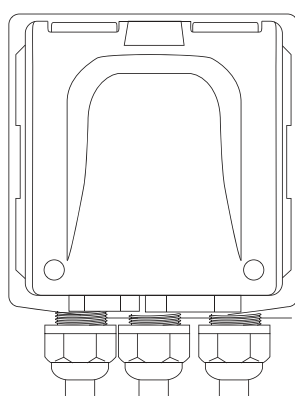
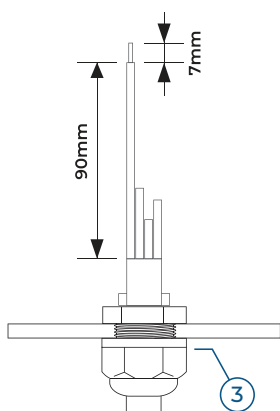
Cursor Right / Display Trend Chart



Dimensions



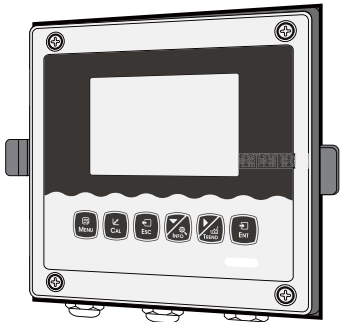
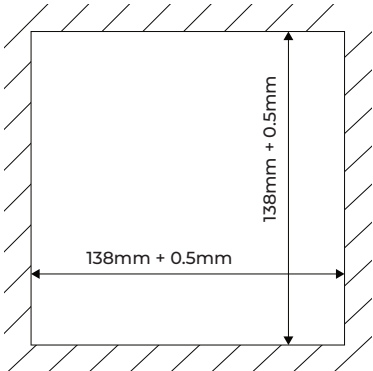
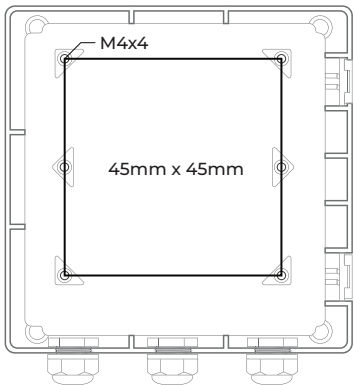
Instrument Installation



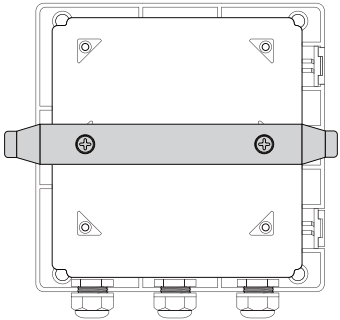
1. Cable (Recommended stripping length for cables is at least 90mm)
2. Cable ties
3. Waterproof cable glands

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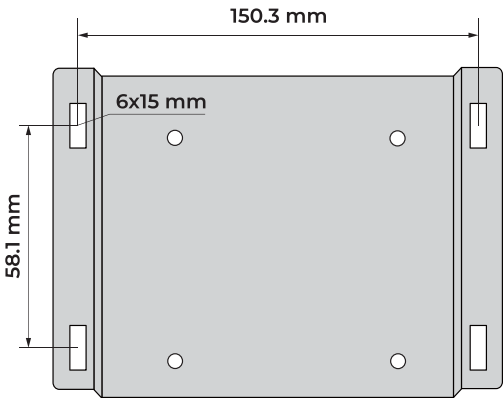
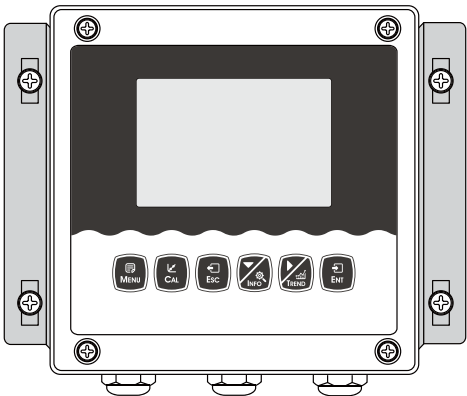
Digital pH/ORP Controller Analyzer



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



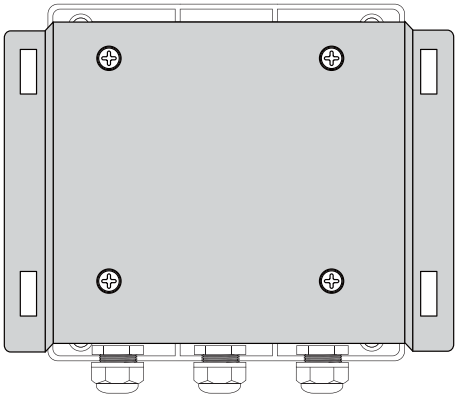
Slim Line Wall Mount Bracket



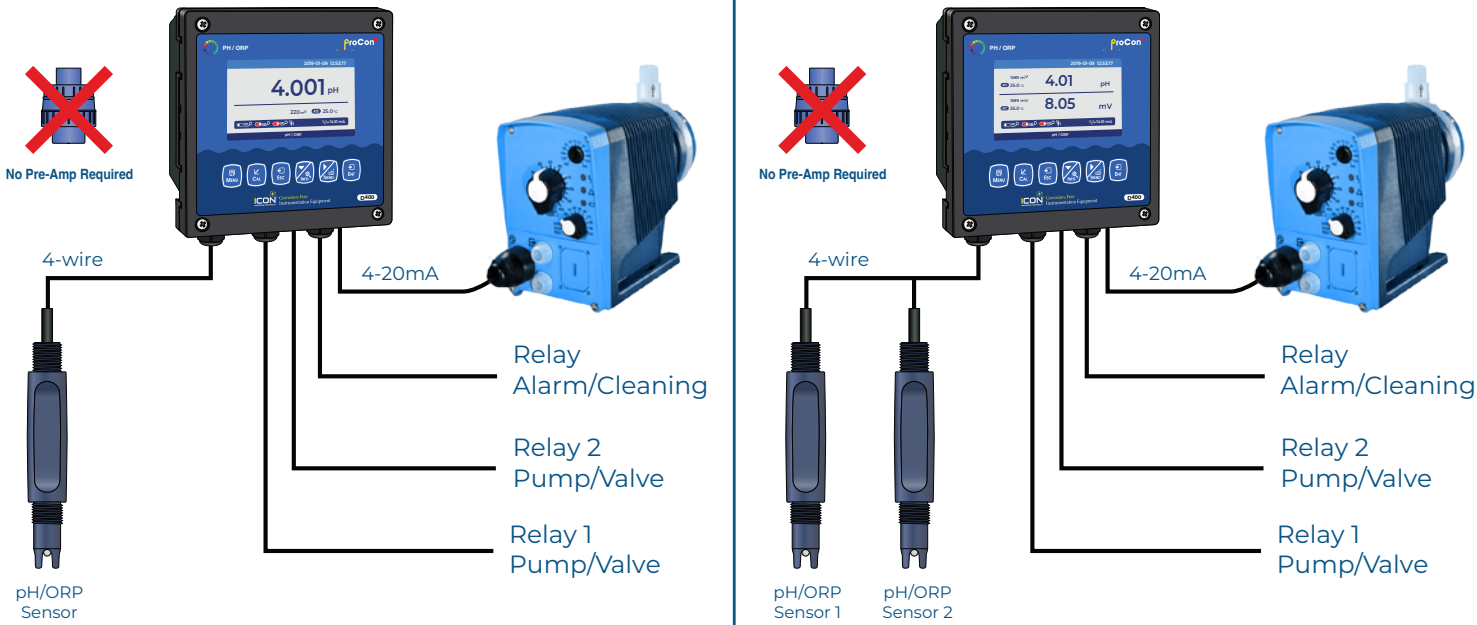
Installation Full Bracket



Install fixed bracket top view



Typical Application



Model Selection

D500 — pH/ORP Controller (Single Data Trending)					
Part Number	Power	Output	Power Cord	Display 1	Display 2
D500-4-D-N-P-0	24VDC	4-20mA + 3 Relays	No	pH/ORP	Single Display
D500-4-D-Y-P-0	24VDC	4-20mA + 3 Relays	Yes	pH/ORP	Single Display

Communication: RS-485 RTU Modbus

D520 — pH/ORP Controller (Dual Data Trending)					
Part Number	Power	Output	Power Cord	Display 1	Display 2
D520-4-D-N-P-P	24VDC	4-20mA + 3 Relays	No	pH/ORP	pH/ORP
D520-4-D-Y-P-P	24VDC	4-20mA + 3 Relays	Yes	pH/ORP	pH/ORP
D520-4-D-N-P-C	24VDC	4-20mA + 3 Relays	No	pH/ORP	Conductivity
D520-4-D-Y-P-C	24VDC	4-20mA + 3 Relays	Yes	pH/ORP	Conductivity

Communication: RS-485 RTU Modbus