ProCon® — D300 Series
Digital pH/ORP Controller Analyzer

Industrial Analytical Equipment

ICON PROCESS CONTROLS™

Corrosion-Free
Instrumentation Equipment

ProCon®

- ✓ **Large LCD display**
- ✓ **Intelligent menu operation**
- ✓ **Automatic calibration**
- ✓ **Manual + automatic temperature compensation**
- ✓ **Two (2) relays**
- ✓ **4-20mA & RS485**
- ✓ **Multi-parameter display — simultaneously shows pH, ORP and temperature**
- ✓ **Password protection**

High Performance Industrial Controller Analyzer

The ProCon® D300 series is an extremely robust indusatrial pH/ORP controller analyzer.

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

The D300 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.
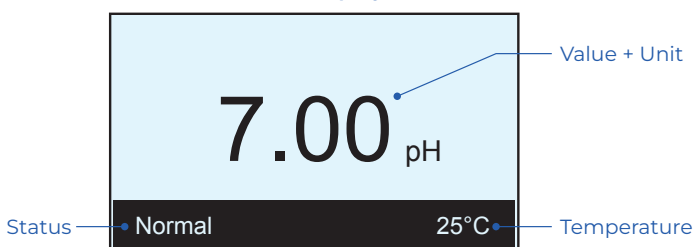
The cost-saving, quick and easy setup is done through our user-friendly step-by-step on-screen menu.
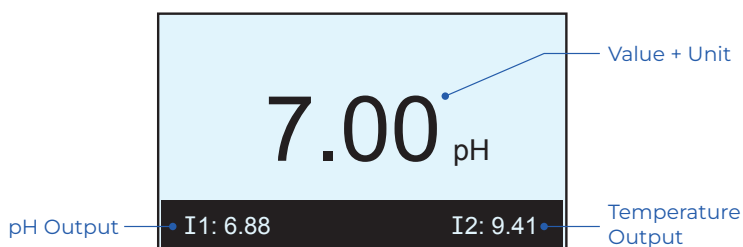
Enclosure

The D300 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.
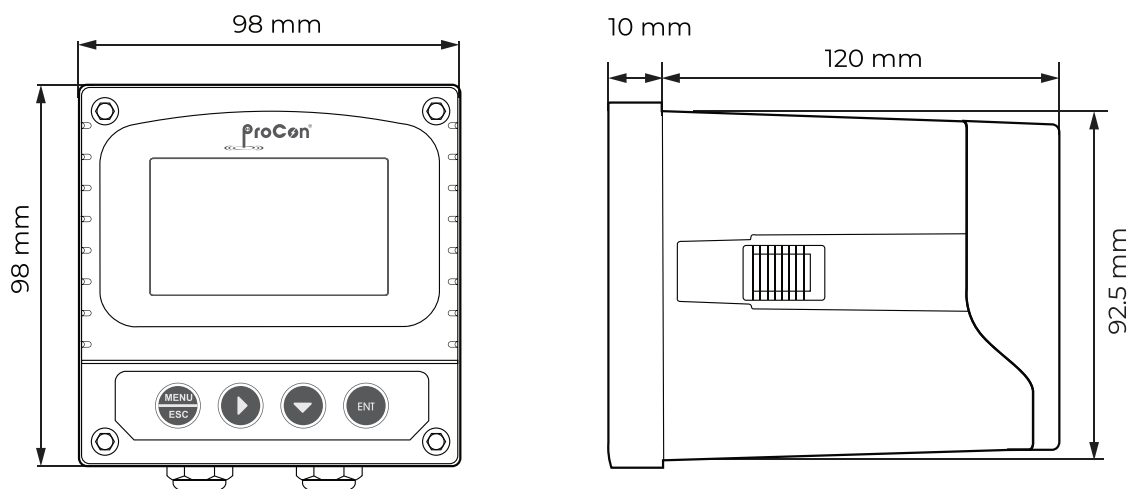
Cable Grip Wire Connector Combo
(no internal wiring required)

SimplConnect™
Cable Grip Connectors

Main Display

7.00 pH
Status — Normal   25°C
Value + Unit
Temperature

pH Mode

7.00 pH
I1: 6.88   I2: 9.41
Value + Unit
pH Output
Temperature Output

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	0.5kg
Dimensions	98 × 98 × 130mm
Installation Opening Size	93 X 93mm
Installation methods	Panel | Pipe | Wall

Dimensions

98 mm

98 mm

10 mm

120 mm

92.5 mm

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Instrument Installation

ProCon®

Wall Mounting

φ5mm

53 mm

18.4 mm

Fixture Dimension
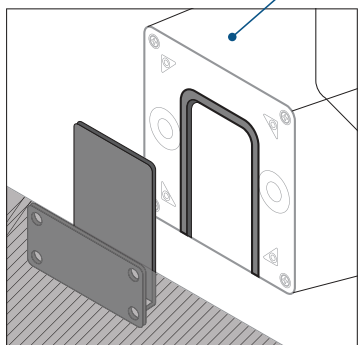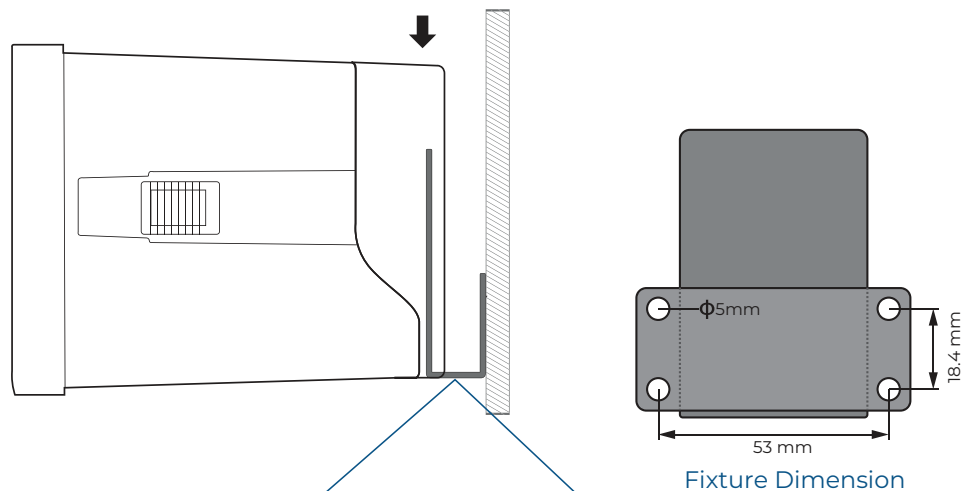
Install bracket on the wall first
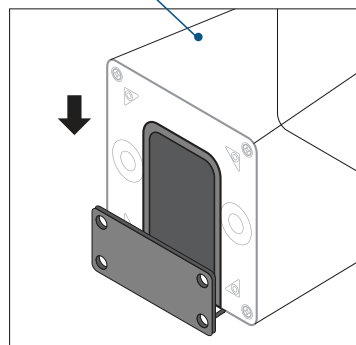
Insert into the fixture along the chute

Control Panel Installation

93 mm (± 0.5 mm)

93 mm (± 0.5 mm)
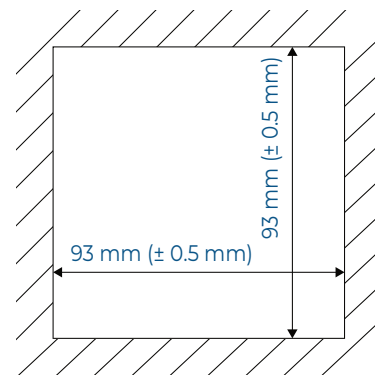
Installation of back cover with waterproofing seal
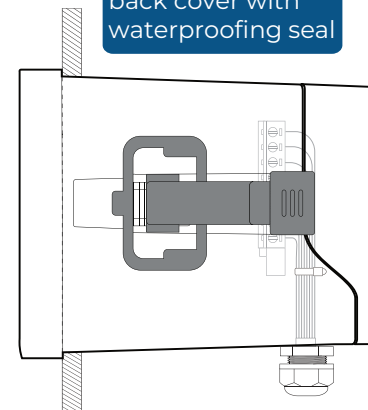
Typical Application

4.01 pH

249 mV   25.0 °C

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NO PREAMP REQUIRED
Direct Sensor to Controller

7.00 pH
I1: 6.88   I2: 9.41

PREEMPT THE PREAMP
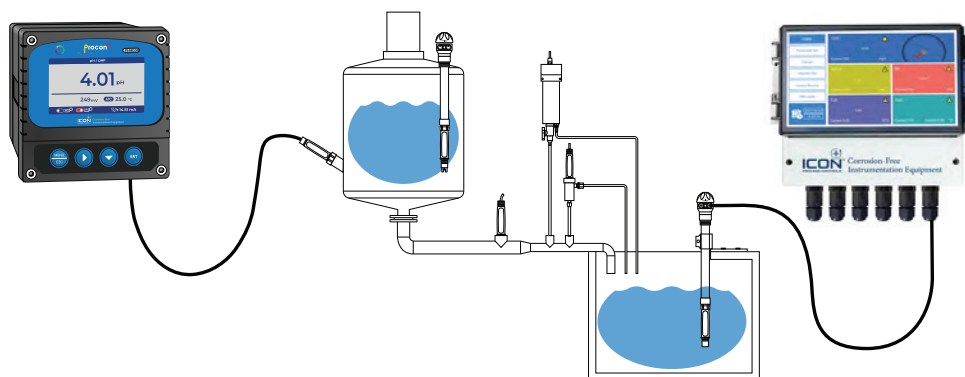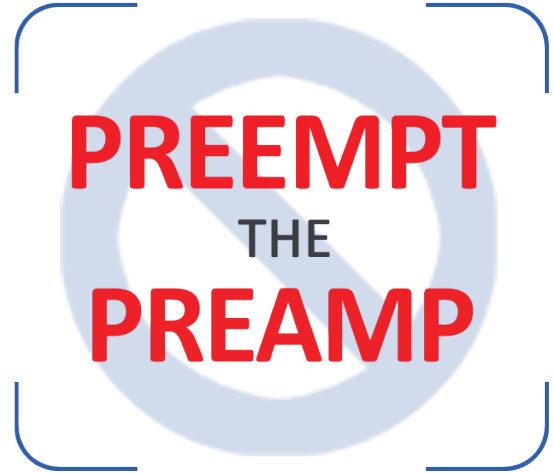
Model Selection

D300 — pH/ORP Controller (Economy)					
Part Number	Power	Output	Power Cord	Display 1	Display 2
D300-4-D-N-P-0	24VDC	4-20mA + 2 Relays	No	pH/ORP	Single Display
D300-4-D-Y-P-0	24VDC	4-20mA + 2 Relays	Yes	pH/ORP	Single Display

Communication: RS-485 RTU Modbus