In-Situ's Con TROLL PRO System is designed for process control and continuous monitoring applications. For local installations and integration into a SCADA or PLC system, choose from two AC-powered models—either logging or non-logging. For remote field deployments, select the DC logging version.

Customize the system by connecting one or two of the following: optical RDO® PRO-X Probe; Aqua TROLL 100 or 200 Data Logger; Aqua TROLL 400 Multiparameter Instrument; Level TROLL 400, 500, or 700 Data Logger; and Rugged TROLL 200 Data Logger. Use the Con TROLL PRO System to:

- **Display, log, and report multiple parameters.**
- **Transfer data to a RuggedReader® Handheld PC or laptop via Bluetooth® Wireless Technology or direct connection.**
- **Measure ambient temperature and barometric pressure.**

**Simplifies System Integration**

- **Uses standard protocols**—connects to a SCADA or PLC system via Modbus/RS485 and includes two isolated 4-20mA current loops.
- **Offers flexible power options**—AC and DC models consume minimal power and feature power-saving options. The DC version can be powered by external battery packs or by solar panels.
- **Recognizes sensors automatically** for fast deployment.

**Delivers Critical Information**

- **Triggers relays for alarm and control**—low-voltage relays can be used to trigger a bell or flashing light. High-voltage relays can be used to control pumps or gates.
- **Reports real-time conditions** that can indicate process changes, identify a potential malfunction, or trigger corrective measures.

**Meets Compliance Standards**

- Complies with UL/CSA safety standards
- Meets CE and FCC standards for heavy-industrial environments

**Applications**

- Aquaculture management
- Hydropower monitoring
- Municipal/industrial water and wastewater treatment
- Real-time remediation systems—pump and treat
- River/stream gaging and control and flood control
## Con TROLL® PRO System

<table>
<thead>
<tr>
<th>Component description</th>
<th>Microprocessor-controlled, menu-driven measuring system with measured value and temperature displays.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model AC</td>
<td>Displays and transmits data. Suited for applications with access to line power that do not require logging. Can trigger low- and high-voltage relays.</td>
</tr>
<tr>
<td>Model AC-L</td>
<td>Displays, transmits, and logs data. Suited for applications with access to line power that require logging capabilities. Can trigger low- and high-voltage relays.</td>
</tr>
<tr>
<td>Model DC-L</td>
<td>Displays, transmits, and logs data. Battery- or solar-powered controller suited for remote applications. Can trigger low-voltage relays.</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>AC and AC-L models: 100-240 VAC, 0.15 A, 50-60 Hz DC-L model: 9-36 VDC, 0.2 A max.</td>
</tr>
</tbody>
</table>
| Output relays         | (2) 4-20 mA isolated current loops  
(2) low voltage (< 50 V) max. at 2A  
(2) high voltage (> 50 V), 264 VAC max. at 5A (AC-powered models only) |
| Enclosure             | NEMA 4X; IP67 |
| Controller dimensions | 16 x 16 x 9.04 cm (6.3 x 6.3 x 3.56 in) (W x H x D) |
| Controller weight     | AC and AC-L models: 1.36 kg (3.0 lbs) DC-L model: 1.09 kg (2.4 lbs) |
| Controller operating temperature | -20° to 70° C (-4° to 158° F); 95% relative humidity, non-condensing |
| Controller storage temperature | -40° to 85° C (-40° to 185° F); 95% relative humidity, non-condensing |
| Logging memory        | 4 MB (3 yrs logging every 15 min. with 2 sensors) |
| Barometric pressure   | Range: 300 to 1100 mbar  
Accuracy: ±3 mbar max.  
Resolution: 0.01 mbar |
| Ambient temperature   | Range: -20° to 70° C (-4° to 158° F)  
Accuracy: ±2° C max.  
Resolution: 0.1° C |
| Certifications        | Listed for use in general locations to UL/CSA safety standards by ETL (w/ RDO PRO-X Probe). CE and FCC approved for heavy-industrial environments (w/ RDO PRO-X Probe). |
| Warranty              | 1 year |

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### Easily Integrates with In-Situ Instruments

Connect one or two sensors to the Con TROLL PRO System:
- Optical RDO PRO-X Dissolved Oxygen Probe
- Aqua TROLL 100 or 200 Data Logger and Aqua TROLL 400 Multiparameter Probe
- Level TROLL 400, 500, or 700 Data Logger
- Rugged TROLL 200 Data Logger (Modbus/RS485 option only)

### Improves Accuracy

- **Compensates for environmental factors**—you can enable automatic barometric pressure, salinity, and water density compensations as needed for your application.
- **Offers on-site calibration**—you can easily calibrate sensors and reset factory defaults.