**Con TROLL® PRO System**

**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 the AC logging version. 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 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:**

- MUNICIPAL/INDUSTRIAL WATER AND WASTEWATER TREATMENT
- REAL-TIME REMEDIATION SYSTEMS—PUMP AND TREAT
- AQUACULTURE MANAGEMENT
- RIVER/STREAM GAGING AND CONTROL AND FLOOD CONTROL
- HYDROPOWER MONITORING
### 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-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>
<tr>
<td>OUTPUT RELAYS</td>
<td>(2) 4-20 mA isolated current loops (2) low voltage (&lt; 50 V) max. at 2A (2) high voltage (&gt; 50 V), 264 VAC max. at 5A (AC-powered models only)</td>
</tr>
<tr>
<td>ENCLOSURE</td>
<td>NEMA 4X, IP67</td>
</tr>
<tr>
<td>CONTROLLER DIMENSIONS</td>
<td>16 x 16 x 9.04 cm (6.3 x 6.3 x 3.56 in) (W x H x D)</td>
</tr>
<tr>
<td>CONTROLLER WEIGHT</td>
<td>AC and AC-L models: 1.36 kg (3.0 lbs) DC-L model: 1.09 kg (2.4 lbs)</td>
</tr>
<tr>
<td>CONTROLLER OPERATING TEMPERATURE</td>
<td>-20° to 70° C (-4° to 158° F); 95% relative humidity, non-condensing</td>
</tr>
<tr>
<td>CONTROLLER STORAGE TEMPERATURE</td>
<td>-40° to 85° C (-40° to 185° F); 95% relative humidity, non-condensing</td>
</tr>
<tr>
<td>LOGGING MEMORY</td>
<td>4 MB (3 yrs logging every 15 min. with 2 sensors)</td>
</tr>
<tr>
<td>BAROMETRIC PRESSURE</td>
<td>Range: 300 to 1100 mbar Accuracy: ±3 mbar max. Resolution: 0.01 mbar</td>
</tr>
<tr>
<td>AMBIENT TEMPERATURE</td>
<td>Range: -20° to 70° C (-4° to 158° F) Accuracy: ±2° C max. Resolution: 0.1° C</td>
</tr>
<tr>
<td>CERTIFICATIONS</td>
<td>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).</td>
</tr>
<tr>
<td>WARRANTY</td>
<td>1 year</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice. The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

---

**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.