IC Controls
Process Water Analysis Equipment since 1979

**Engineering Specification**

# Model 865-25 ppb Dissolved Oxygen Analyzer with Sample Panel

| Physical Data | |
|---|---|
| **PROPERTY** | **CHARACTERISTIC** |
| Display | Four and one half LCD digits, 2.0 cm (0.8 in) displays for dissolved oxygen, atmospheric pressure, temperature, efficiency, error codes, prompts and diagnostic information |
| Display Ranges | Dissolved Oxygen: 0.00 mg/L to 19.99 mg/L *or* 0.01 µg/L to 9,999 µg/L<br>Temperature: -5.0 °C to 105 °C (23.0 °F to 221 °F)<br>Barometric Pressure: 72 kPa to 130 kPa |
| Keypad | 8 pushbutton entry keys |
| LED's | 2 alarms (A and B), 1 auto, 1 error |
| Case Dimensions | 16.0 cm (H) × 26.0 cm (W) × 9.0 cm (D) / (6.3 in (H) × 10.2 in (W) × 3.5 in (D)) |
| Panel Dimensions | 36 cm (W) × 66 cm (H) / 14 in (W) × 26 in (H) |
| Weight | 11.4 kg (25.0 lb) |
| Shipping Weight | 13.6 kg (30.0 lb) |
| Shipping Weight | 71 cm × 41 cm × 20 cm / (28 in × 16 in × 8 in) |
| **Environmental Data** | |
| **PROPERTY** | **CHARACTERISTIC** |
| Temperature | Operational: 5.0 °C to 45 °C (41.0 °F to 113 °F)<br>Storage: -10.0 °C to 55 °C (14.0 °F to 131 °F)<br>Relative Humidity: 95 % maximum; non-condensing |
| Environment Ratings | Housing: IP65 (Nema 4X)<br>Pollution Degree: 2<br>Installation Category: II |
| Electrical Ratings | 115 VAC, 60 Hz, 0.25 A or 230 VAC, 50 Hz, 0.13 A |
| Electrical Requirements | 115/230 VAC ± 10 %, 50 W |
| Certifications | CAN/CSA C22.2 No. 61010-1-12 - Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements - Third Edition; Update No. 1: July 2015; Update No. 2: April 2016 ; Amd 1: November 2018<br>UL 61010-1 - UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements - Third Edition; Including Revisions through November 21, 2018 |

# Model 865-25 ppb Dissolved Oxygen Analyzer with Sample Panel

| Operational Data | |
|---|---|
| **PROPERTY** | **CHARACTERISTIC** |
| Accuracy | Dissolved Oxygen: ±2 % reading *or* 0.1 µg/L, whichever is greater<br>Temperature: ±0.1 °C |
| Precision | Dissolved Oxygen: ± 2 % reading *or* 2 digits<br>Temperature: ± 0.1 °C |
| Response Time | 90% within 30 s (default), function of flow and temperature |
| Temperature Compensation | Auto: -5.0 °C to 105 °C (23.0 °F to 221 °F)<br>Manual: -5.0 °C to 105 °C (23.0 °F to 221 °F) |
| Sample Conditions | Flow: 50 mL/min to 200 mL/min<br>Temperature: Standard D.O. sensor, P/N: A2103012: 2 °C to 45 °C (35.0 °F to 113 °F)<br>PEEK D.O. sensor, P/N A2103042: 2 °C to 65 °C (35.0 °F to 149 °F)<br>Pressure: < 400 kPa (60 psi, 4 bar) |
| Sample Inlet | ¼ in NPT tube fitting |
| Sample Outlet | ¾ in MNPT fitting |
| Security | 3 access-level security; partial and/or all settings may be protected via 3 and/or 4 digit security code. |
| Alarms | Two independent, assignable, programmable, configurable, failsafe NO/NC or auto-range BCD alarm relays; SPDT, Form C, rated<br>10 A 115 V/5 A 230 V, 5 position BCD contact closure. |
| Outputs | Two continuous, assignable, programmable 4 mA to 20 mA, or<br>0 mA to 20 mA outputs; isolated, max. load 600 Ω;<br>Convertible from 1 VDC to 5 VDC or 0 VDC to 5 VDC. |
| Communication | Via RS232 bidirectional serial data port; require IC Net™ 2000 software. |



www.iccontrols.com | sales@iccontrols.com
phone: (519) 941-8161 / (800) 265-9161