

**MODEL 877-25 pH/ORP METHOD CHLORINE SAMPLE PANEL  
Specification**

| Physical Data           |  |
|-------------------------|--|
| <b>PROPERTY</b>         | <b>CHARACTERISTIC</b>  |
| Display                 | Four and one half LCD digits, 1.5 cm (0.6 in) displays for total and free available chlorine or bromine, pH, ORP, temperature, efficiency, error codes, prompts and diagnostic information ( <i>back-lit display optional</i> ). |
| Display Ranges          | pH: 0 pH to 14 pH units<br>ORP: 0 mV to 1,000 mV<br>Chlorine/bromine: 0.00 mg/L to 5.00 mg/L<br>Temperature: -5.0 °C to 105 °C (23.0 °F to 221 °F)   |
| Keypad                  | 8 pushbutton entry keys  |
| LED's                   | 2 alarms (A and B), 1 auto, 1 error  |
| Analyzer Dimensions     | 12.0 cm (H) × 20.0 cm (W) × 7.5 cm (D)<br>(4.7 in (H) × 7.9 in (W) × 3.0 in (D))   |
| Panel Dimensions        | 36 cm (W) × 66 cm (H) / 14 in (W) × 26 in (H)  |
| Weight                  | 9.1 kg (20.0 lb)   |
| Shipping Weight         | 11.4 kg (25.0 lb)  |
| Shipping Dimensions     | 71 cm × 41 cm × 20 cm<br>(28 in × 16 in × 8 in)  |
| Environmental Data      |  |
| <b>PROPERTY</b>         | <b>CHARACTERISTIC</b>  |
| 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      | 115/230 VAC, 0.25 A, 50/60 Hz  |
| Electrical Requirements | 115/230 VAC ± 10 %, 50 W   |

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| Operational Data         |  |
|--------------------------|--|
| <i>PROPERTY</i>          | <i>CHARACTERISTIC</i>  |
| Accuracy                 | pH: $\pm 0.2$ % of measured range<br>ORP: $\pm 0.5$ % of measured range<br>Chlorine: $\pm 2.0$ % of measured range<br>Temperature: $\pm 0.1$ °C                            |
| Precision                | pH: $\pm 1$ digit (0.01 pH units)<br>ORP: $\pm 1$ digit (1.0 mV)<br>Chlorine: $\pm 1$ digit (0.01 mg/L)<br>Temperature: $\pm 1$ digit (0.1 °C)                             |
| Response Time            | 90 % within 5 s (default), function of flow and temperature.<br>Damping adjustment: 3 s to 99 s  |
| Temperature Compensation | Automatic 1000 $\Omega$ RTD<br>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 500 mL/min<br>Temperature: 2 °C to 45 °C (35.0 °F to 113 °F)<br>Pressure: < 400 kPa (60 psi, 4 bar)<br>Drain: Atmospheric                               |
| Sample Inlet             | 1/2 in barb fitting  |
| Sample Outlet            | 1/2 in barb 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 alarm relays; SPDT, Form C, rated 10 A 115 V/5 A 230 V.  |
| Outputs                  | Two continuous, assignable, programmable 4 mA to 20 mA, or 0 mA to 20 mA outputs; isolated, max. load 600 $\Omega$ ;<br>Convertible from 1 VDC to 5 VDC or 0 VDC to 5 VDC. |
| Communication            | Via RS485 bidirectional serial data port; require IC Net™ 2000 software.   |