

## 9092 FREE CHLORINE ANALYZER

**Introducing the new Waltron 9092 Free Chlorine Analyzer for automatic, continuous measurement of free chlorine in aqueous media. Measurement is based on a microprocessor based potentiostatic three electrode system.**

The Waltron 9092 Free Chlorine Analyzer is used for industrial process monitoring and process control. Applications include drinking water treatment, cooling water treatment, water management in swimming pools, or the control of residual concentration  $\text{Cl}_2$  of chlorine-treated waste water. The potentiostatic technology allows for a much faster response time than membrane or amperometric systems, ensuring short start-up times, easy operation, and low maintenance.

### FEATURES

**Wide range analysis: 0-1 mg/L (ppm), 0-10 mg/L (ppm)**

**Automatic temperature and flow compensation**

**Fast response time ( $t_{90} = 30$  sec)**

**No zero point adjustment required**

**Withstands pressures up to 8 bar (116 psi)**

**Analog and digital interface; data logging option**

**Process calibration**

**Minimal maintenance required**

**Automatic pH compensation for free chlorine reading**



See reverse side for specifications.

## 9092 FREE CHLORINE ANALYZER | GENERAL SPECIFICATIONS

### PERFORMANCE

|                                 |   |
|---------------------------------|---|
| <b>Range</b>                    | 0-1 mg/L (ppm), 0-10 mg/L (ppm)   |
| <b>Accuracy</b>                 | +/- 3% of reading   |
| <b>Response Time</b>            | t90 = 30 sec  |
| <b>Temperature Compensation</b> | Automatic   |
| <b>pH Compensation</b>          | Automatic   |
| <b>Calibration</b>              | Manual (Cl <sub>2</sub> process calibration; pH calibration with 4 & 7 buffer solution) |
| <b>Analog Outputs</b>           | 0-20mA, 4-20mA (shunt max 500 Ohm)  |
| <b>Digital Outputs</b>          | Serial interface RS232  |
| <b>Alarms</b>                   | Flow, calibration, power  |
| <b>Power</b>                    | 100VAC - 240 VAC, 50/60 Hz  |

### SAMPLE DELIVERY OPERATING CONDITIONS

|                            |   |
|----------------------------|---|
| <b>Sample Flow</b>         | 3-18 L/h  |
| <b>Sample Temperature</b>  | 32-140° F (0-60° C)                                       |
| <b>Ambient Temperature</b> | 32-131° F (0-55° C)                                       |
| <b>Pressure</b>            | 0.3-8 bar (5-116 psig)                                    |
| <b>Sample Conductivity</b> | ≥ 10 µS/cm; salt cell is required if conductivity is less |

### MECHANICAL

|                                    |   |
|------------------------------------|---|
| <b>Dimensions (Full size 9091)</b> | Transmitter: Height=11" (27.7 cm), Width=7" (17.8 cm), Depth=7.75" (19.7 cm) with wall-mount bracket, Depth = 4.5" (11.4 cm) without wall-mount bracket<br>Wet Section: Height=6" (15 cm), Width=4" (10 cm), Depth=6" (15 cm) |
| <b>Dimensions (Portable 9091C)</b> | Transmitter: Height=5.5" (14 cm), Width=7" (18 cm), Depth=7" (18 cm)<br>Wet Section: Height=6" (15 cm), Width=4" (10cm), Depth=6" (15 cm)   |
| <b>Protection Class</b>            | IP54  |
| <b>Piping</b>                      | 6mm SS tube fittings  |
| <b>Materials used</b>              | Measuring Electrode: gold<br>Counter Electrode: stainless steel 1.4571 (314)<br>Reference Electrode: Ag/AgCl in saturated KCl-solution  |

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EXPERTS IN  
WATER CHEMISTRY  
SINCE 1903

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