

## 9091/9091C DISSOLVED HYDROGEN ANALYZER

The Waltron 9091/9091C Dissolved Hydrogen Analyzer is the industry standard for continuous measurement of dissolved hydrogen in water. Measurement is microprocessor based and uses a potentiostatic three electrode system.

Important application points include primary loop of nuclear power plants, boiler bleed-water in thermal power plants, denitrification of drinking water, and catalytic reduction of oxygen on noble metal surfaces in water treatment plants. The dissolved hydrogen concentrations within the water/steam loop of a power plant gives quantitative and qualitative evidence of the rate of corrosion, corresponding to the buildup or destruction of the protective oxide layer inside pipes and boiler tubes.

### FEATURES

Portable system - Model 9091C available

Fully automatic remote calibration

Wide range analysis: 0-1000  $\mu\text{g/L}$ , 0-10  $\text{mg/L}$ , 0-100  $\text{cc/kg}$

Automatic temperature and flow compensation

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

No zero point adjustment required

Withstands pressures up to 8 bar (116 psi)

Analog and digital outputs

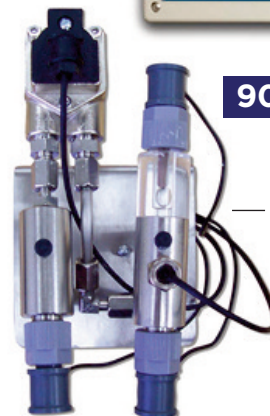
Minimal maintenance required

Automatic operation

See reverse side for specifications.



9091



— WET SECTION



9091C



— WET SECTION

## 9091/9091C DISSOLVED HYDROGEN ANALYZER | GENERAL SPECIFICATIONS

### PERFORMANCE

<b>Range</b>	0-1000 µg/L, 0-10 mg/L, 0-100 cc/kg
<b>Accuracy</b>	+/- 3% of reading
<b>Response Time</b>	t90 = 30 sec
<b>Temperature Compensation</b>	Automatic
<b>Calibration</b>	Automatic or manual
<b>Current 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>Temperature: 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>Recommended Conditioning</b>	Sample should be filtered to 60 microns
<b>Sample Conductivity</b>	≥ 2µS/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 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) Wet Section: Height=6" (15 cm), Width=4" (10cm), Depth=6" (15 cm)
<b>Protection Class</b>	IP54
<b>Piping</b>	Swagelok® tube diameter = 6mm

102-015-C.1



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