

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 µg/L, 0-10 mg/L, 0-100 cc/kg

Automatic temperature and flow compensation

Fast response time (t90 = 30 sec)

No zero point adjustment required

Withstands pressures up to 8 bar (116 psi)

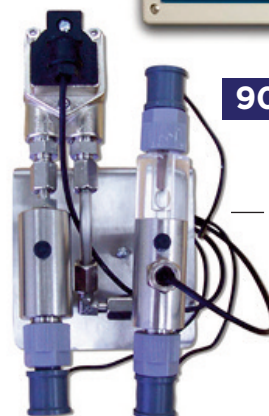
Analog and digital outputs

Minimal maintenance required

Automatic operation



9091



— WET SECTION



9091C



— WET SECTION



9091/9091C DISSOLVED HYDROGEN ANALYZER | GENERAL SPECIFICATIONS

PERFORMANCE

Range	0-1000 µg/L, 0-10 mg/L, 0-100 cc/kg
Accuracy	+/- 3% of reading
Response Time	t90 = 30 sec
Temperature Compensation	Automatic
Calibration	Automatic or manual
Current Outputs	0-20mA, 4-20mA (shunt max 500 Ohm)
Digital Outputs	Serial interface RS232
Alarms	flow, calibration, power
Power	100VAC - 240 VAC, 50/60 Hz

SAMPLE DELIVERY OPERATING CONDITIONS

Temperature: Sample Flow	3-18 L/h
Sample Temperature	32-140° F (0-60° C)
Ambient Temperature	32-131° F (0-55° C)
Pressure	0.3-8 bar (5-116 psig)
Recommended Conditioning	Sample should be filtered to 60 microns
Sample Conductivity	≥ 2µS/cm; salt cell is required if conductivity is less

MECHANICAL

Dimensions (Full size 9091)	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)
Dimensions (Portable 9091C)	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)
Protection Class	IP54
Piping	Swagelok® tube diameter = 6mm

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