



- AUTO ZERO
- AMPEROMETRIC CONTINUOUS READING
- CONTINUOUS CLEANING SYSTEM
- DIGITAL MICROPROCESSOR
- ADJUSTABLE HI/LO ALARMS
- PUMPED REAGENT FEED
- EIGHT RANGES
- FREE OR TOTAL CHLORINE
- INTEGRATED CONTROL MODES

DESCRIPTION

The Eagle Microsystems Residual Analyzer is designed to continuously analyze residual levels of free or total chlorine, chlorine dioxide or potassium permanganate in water or waste-water.

OPERATION

Liquid to be sampled is delivered to the amperometric cell at a rate of approximately 500 ml/min. The cell creates a small DC current proportional to the residual in the sample liquid.

The DC current is taken to a Digital Controller, where calibration ranges and display of residual takes place. The RA-1100 instrument is keypad operated and uses simple, menu driven instructions. The RA-1100 also has an auto scalable output, eliminating the need for output calibration after range selection. The Auto Zero function is standard and only available on the Eagle Microsystems RA-1000 Series.

Electrodes are kept clean by continuous motor driven mixer and plastic spheres.

Hi-Lo alarms can be adjusted in the RA-1100 from 0 to full scale. Reagent is pump fed using a precision peristaltic pump, and only needs to be replenished every 2-3 weeks, depending on the reagent source.

SPECIFICATIONS

Eight Ranges: 0-1 to 0-30 mg/l

Sensitivity: .001 mg/l (1 PPB)

Resolution: .001 mg/l in 0-1 mg/l range
.01 mg/l 0-2 thru 0-30 mg/l ranges

Response: 4 sec. from time of sample entry

Display: 1 – 2 min for FS step change

Sample Flow: 500 ml/min.

Sample Temp: 35 – 120° F

Amb. Temp: 35 – 120° F

Measurement Electrode: Gold

Reference Electrode: Copper

Output Signal: Isolated 4-20 mA DC

High/ Low Alarms: Adjustable 0 – Full Scale

Four Relay Contacts: 1.6 A @120 VAC,
Optional – 8A @120 VAC

Electronics Enclosure: NEMA 4X

Power Requirement:: 120 VAC, 60 Hz, 10w

STANDARD EQUIPMENT

Wall Panel Mounted
Residual Analyzer

Digital Indicator/Controller

Tubing and Tubing clamps

OPTIONAL EQUIPMENT

Sample Booster Pump

Dual 4-20 mA output

Pressure Reducing Valve

CO₂ Gas pH Buffer
System

Self Flushing Strainer

