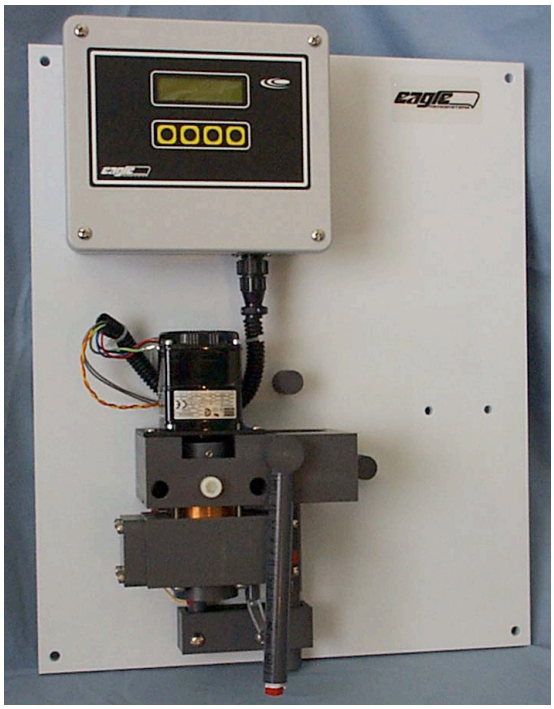
RA-1200

PRECISION INSTRUMENTATION FOR MEASUREMENT AND CONTROL

RESIDUAL ANALYZER



- **NO REAGENT REQUIRED**
- **AMPEROMETRIC CONTINUOUS READING**
- **CONTINUOUS CLEANING SYSTEM**
- **MICROPROCESSOR CONTROL W/LCD DISPLAY**
- **NO REAGENT REQUIRED**
- **EIGHT RANGES**
- **FREE CHLORINE ONLY**
- **INTEGRATED CONTROL MODES**
- **USER PROGRAMMABLE HIGH & LOW ALARMS**

The Eagle Microsystems Residual Analyzer is designed to continuously analyze residual levels of free chlorine in water with constant pH value.

A sample of water containing chlorine is pumped to a reservoir in the instrument where it is fed by gravity to the amperometric cell containing a gold electrode and a copper counter-electrode. A small dc current is developed across the cell the level of which is proportional to the chlorine concentration in the sample.

The output of the cell is processed by an on-board microprocessor-based digital controller, and the residual value is displayed o the LCD readout of the instrument. The controller transmits a 4-20 mAdc signal for recording or remote display and is capable of outputting a signal for residual process control via one of several modes including: flow pacing, compound loop, or conventional PID control.

The dissimilar metal electrodes of the cell are continuously cleaned by PVC spheres stirred within the cell by a motor driven striker. A thermistor is used to provide temperature compensation.

All control and calibration funcitons are made through the 4-pushbutton keypad and backlit 2-line by 16-character LCD display on the face of the instrument.

The instrument is designed for chlorine residual measurement where water pH is constant. Therefore no reagent feed system is required.

EAGLE MICROSYSTEMS, INC. *366 CIRCLE OF PROGRESS , POTTSTOWN, PA 19464*
PHONE: 610-323-2250 ***FAX: 610-323-0114*** ***WWW.EAGLEMICROSYSTEMS.COM***

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

Three 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

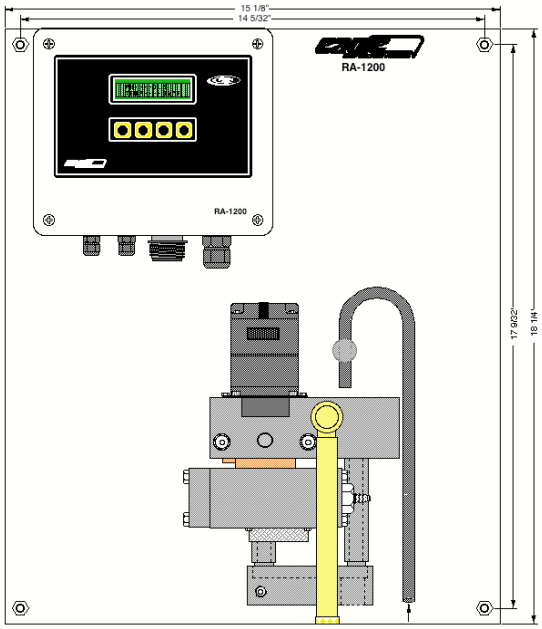
Tubing and Tubing clamps

OPTIONAL EQUIPMENT

Dual 4-20 mA output

Pressure Reducing Valve

Self Flushing Strainer



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