

SUREFLOW TECHNOLOGIES

SERIES 8 CL2 GUARDIAN RESIDUAL ANALYZER

- **TRUE AMPHEROMETRIC DESIGN**
- **CONTINUOUS MEASUREMENT**
- **FIELD SELECTABLE RANGE**
- **INTEGRAL SELF CLEANING**
- **PROVEN RELIABILITY**
- **ADJUSTABLE HIGH/LOW ALARM POINTS**
- **DIRECT RESIDUAL CONTROL (OPTIONAL)**
- **GRAVITY REAGENT FEED**
- **TEMPERATURE COMPENSATED**
- **DISPLAY RESOLUTION TO 1 PPB**
- **WORLD-WIDE REPRESENTATIVES AND FACTORY TRAINED SERVICE**



Applications

The Series 8 incorporates a microprocessor based controller which allows a set point to be established for direct residual control eliminating the need for a separate set point controller. Indication of the residual value, in mg/l, is provided by a three digit LCD display mounted on the face of the unit. The analyzer's reagent and sample are gravity fed, eliminating the need for metering pumps. A self cleaning system maintains a constant level of electrode cleanliness, which eliminates signal drift. Gold and copper electrodes are used for maximum signal strength. Sample temperature variations are compensated within the measuring cell, providing accurate residual values.

Features

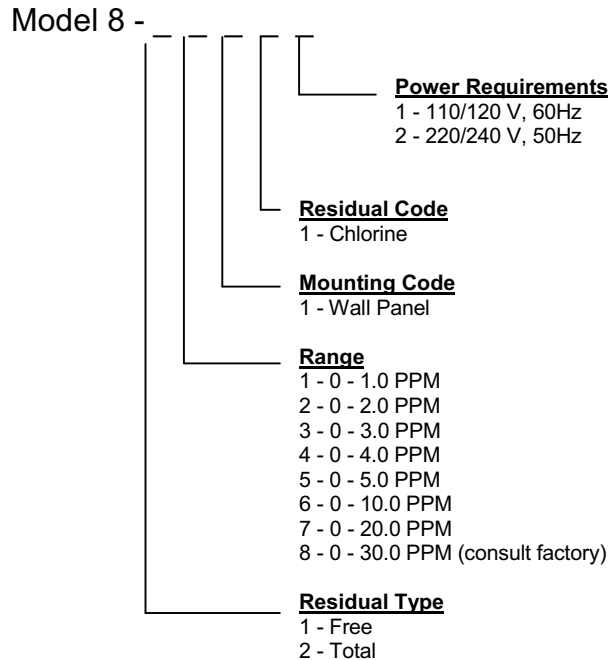
- **Economy** - At last, a high quality but economical residual analyzer. Proof that quality doesn't have to be expensive.
- **Versatility** - Analyze residual levels of free or total chlorine.
- **Range** - Field selectable monitoring range from 0 to 20 mg/l.
- **Construction** - The analyzer is constructed of corrosion resistant materials. Each unit is pre-piped and pre-wired requiring only field connection.
- **Accuracy** - Provides a measurement accuracy of $\pm 5\%$ of full scale.
- **Alarms** - High and low alarm points are adjustable from 0-100% of the range. A 4-20 mA analog output is provided for connection to an external alarm, controller or recorder.

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SERIES 8 CL2 GUARDIAN RESIDUAL ANALYZER

Technical Data

Model Information Code



Reagent Feed Systems

- A - pH Buffer Wall Mount
- B - pH Buffer AND Potassium Iodide
- C - CO2 Gas Buffer
- D - CO2 Gas Buffer AND Potassium Iodide

Accuracy: Within 5% of full scale range.

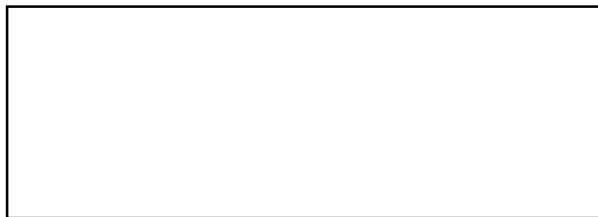
Operating Range: 0 to 20 mg/l.

Operating Temperature: 35 °F to 120 °F

Alarm Contacts: N/O type, 5A@120/240VAC

Analog Output: 4 -20 mA into 600 Ohm max.

REPRESENTED BY:



Operation

A sample liquid is delivered to the sample chamber at an approximate rate of 500 ml/minute. The excess overflows to drain. The sample then passes through the annular space between the two fixed electrodes in the sensing cell. A small dc current is generated in direct linear proportion to the amount of chemical present in the liquid. The surfaces of both electrodes are kept clean by the continuous action of plastic balls agitated by a motor-driven rotating striker. This constant cleaning eliminates signal drift and re-calibration, and provides an accurate residual measurement. A thermistor compensates for sample temperature variation.

High and Low alarm points are independently adjusted from 0 to 100% of the selected range. Each alarm point also has a corresponding relay contact, which can be connected to an external alarm, controller, etc.

The liquid reagent(s) is stored in a single bottle and fed from a constant head reservoir through a rotary valve. This valve adds the precise amount of solution during each valve rotation. The reagent bottle supplies 7 days of use before refilling is required.

Options and Accessories

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|-------------------|-------------------------|
| Scales | Manifolds |
| Gas Detectors | Isolating Valves |
| Corporation Stops | Automatic Controls |
| Gas Feed Systems | Floor and Wall Cabinets |