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Residual Chlorine Analyzer

Model ADS-RA-1000

Amperometric Residual Analyzer –Used to continuously monitor the residual concentration for free or total Chlorine

The Process:

1) A sample of water or wastewater containing the target chemical is pumped to a reservoir in the instrument where it is fed by gravity to the amperometric measuring cell.

2) A pH buffering agent is also injected into the cell.

3) A small current is developed within the cell, the level of which is directly proportional to the concentration of the target chemical within the sample.

4) The output of the cell is processed by an on-board microprocessor-based digital controller and the residual value is displayed on the LCD readout of the instrument.

5) The digital controller transmits a 4-20 mA 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 and compound loop control.

Features

- Auto Zero function
- All-digital control
- Continuous electrode cleaning
- Eight standard field selectable ranges
- Measurement of free or total chlorine residual
- Full automatic control capability
- Pushbutton control of all functions

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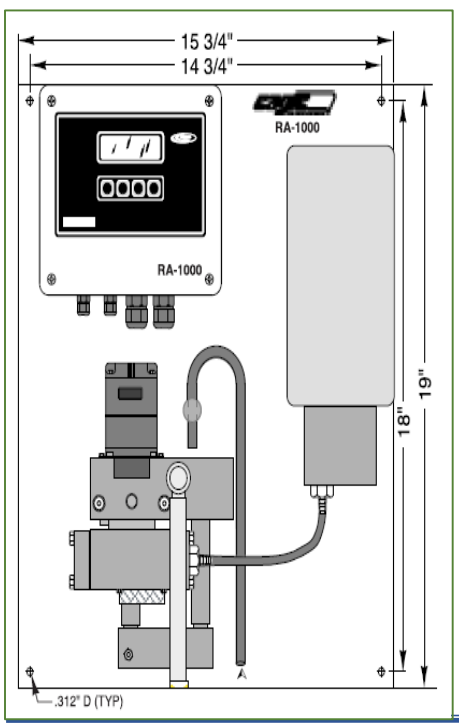
System Specifications	
System	
Ranges:	0.1 to 30.0 mg/l
	> mg/l consult factory
Electrodes:	
Measuring	Gold
Reference:	Copper
Response:	4 sec. from time of sample entry
Sample flow:	500 ml/min
Sample Temp:	35-120 F
Ambient Temp:	35-120 F

Instrument Specifications	
Display	Backlit LCD, 2 line by 16 character
Electronics enclosure	NEMA 4X
Power Requirement	120 Vac, 60 Hz, 1 Phase
Display Response	1-2 min for full scale step change
Alarm:	Three, user programmable
	Adjustable 0-full scale
Relay contacts	1.2A @ 125 Vac
Optional	5.0A @ 250 Vac
Analog output	Isolated 4-20 mAdc into 500 ohms max.
Optional digital output	20 mA Serial
Accuracy	Better than 2% of range
Sensitivity	0.001 mg/l (1PPB)
Resolution:	0.001 mg/l (up to 2 mg/l range)



Standard Equipment
- Wall panel-mounted residual analyzer Microprocessor-based indicator/controller
- Reagent bottle
- Tubing and tubing clamps