

Introduction

Providing permanent chlorine residual records normally means purchasing a residual chlorine monitor and connecting the output of the monitor to a separate recorder. ATI's B20 provides an integrated solution to this problem, combining both the analyzer and recorder functions in a single package. This means simpler installation, easier operation, and lower cost. And best of all, the system uses our direct measuring membraned sensor for reliable measurement with minimal maintenance.

- Free or combined chlorine recording
- Selectable 24-hour or 7-day chart
- Modular sensor for easy service
- Digital concentration display
- NEMA 3 wall or panel mount enclosure
- Replaceable felt tip chart pens
- Direct measuring chlorine sensor
- No chemical reagents required
- Simple constant-head flowcell
- Two alarm standard



Sensor and Flowcell

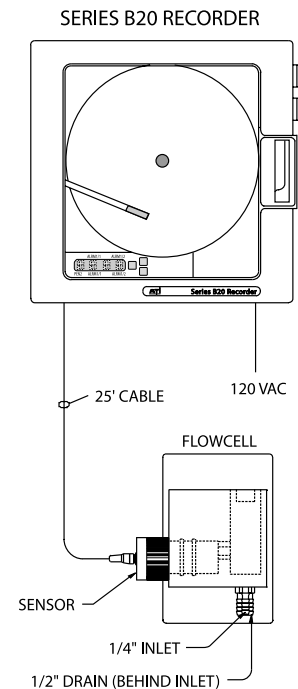
Series B20 chlorine recorders use the same reliable chlorine sensor supplied for years as part of our Series A15 monitoring systems. The sensor is a direct measuring polarographic membraned sensor that eliminates the need for chemical buffers and other reagents. Sensors are available for free chlorine measurements or for combined chlorine monitoring where chloramine treatment is in use.

Chlorine sensors require a constant sample flow past the membrane to provide stable and accurate readings. B20 systems are supplied with a constant-head flowcell assembly that automatically maintains the desired flow. Hose barbs for sample inlet and drain provide for connection of flexible PVC tubing.



Specifications

Range:	0-1 to 0-5 PPM or 0-5 to 0-20 PPM	Flowcell:	Constant head over-flow type
Chart:	10" with 0-100% 24-hour scale, package of 100	Flowcell Materials:	Clear acrylic, stainless plate
Chart Speed:	Selectable for 24-hour or 7-day	Inlet:	1/4" ID tubing hose barb (1/8" FNPT)
Display:	Digital concentration display	Drain:	1/2" ID tubing hose barb (3/8" FNPT)
Accuracy:	±0.05 PPM	Sample Flowrate:	15 GPH (7 GPH minimum)
Repeatability:	±0.02 PPM	Sample Temp:	0° - 50° C
Response Time:	90% in 60 seconds	Power:	120 or 240 VAC, 50/60 Hz
Enclosure:	NEMA 3 Noryl, acrylic window	Recorder Size:	14"W x 14"H x 6"D
Sensor:	Polarographic membraned type	Flowcell Size:	4.5"W x 7"H x 3.5"D
Sensor Materials:	Noryl and stainless steel	Alarms:	Two programmable alarms
Sensor Cable:	25 feet standard, 100 feet max.	Alarm Relays:	Two SPDT, 5A @ 120 VAC resistive



Model B20/C-D-E-F Residual Chlorine Recorder

Suffix C - Measurement Type	Options
62 - Free Chlorine	00-0048 Junction box
63 - Chloramines	31-0001 5 conductor sensor cable
Suffix D - Amplifier Style	31-0008 2 conductor remote amplifier cable
1 - Internal to Recorder (Max. 100 ft. sensor cable)	00-0628 Bracket for submersion sensor
2 - External for remote sensor mounting (Max. 5000 ft.)	00-0259 CO ₂ buffer for injection system
Suffix E - Range	55-0003 Rotameter for CO ₂ buffer
1 - Standard (Adjustable from 0-1 to 0-5 PPM)	55-0035 Pens, package of 5
2 - High range (Adjustable from 0-5 to 0-20 PPM)	55-0036 Charts, 24-hour, package of 100
Suffix F - Sensor Style	55-0037 Charts, 7-day, package of 100
1 - Submersible sensor (Chloramine sensor only)	
2 - Sensor with clear flowcell	



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