

### 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

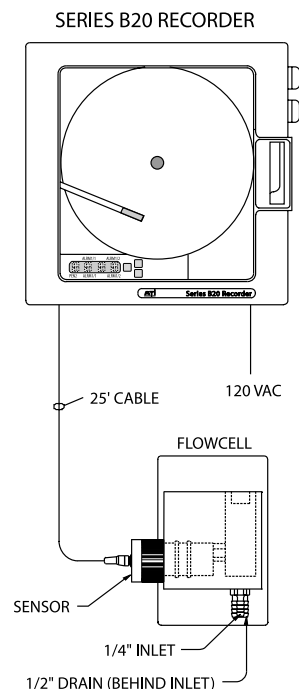
Series B20 chlorine recorders use the same reliable chlorine sensor supplied for years as part of our Series A15 monitoring systems. The sensor is a direct measuring polarographic membraned sensor that eliminates the need for chemical buffers and other reagents. Sensors are available for free chlorine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

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



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

#### Suffix C - Measurement Type

62 - Free Chlorine

63 - Chloramines

#### Suffix D - Amplifier Style

1 - Internal to Recorder (Max. 100 ft. sensor cable)

2 - External for remote sensor mounting (Max. 5000 ft.)

#### Suffix E - Range

1 - Standard (Adjustable from 0-1 to 0-5 PPM)

2 - High range (Adjustable from 0-5 to 0-20 PPM)

#### Suffix F - Sensor Style

1 - Submersible sensor (Chloramine sensor only)

2 - Sensor with clear flowcell

#### Options

00-0048 Junction box

31-0001 5 conductor sensor cable

31-0008 2 conductor remote amplifier cable

00-0628 Bracket for submersion sensor

00-0259 CO<sub>2</sub> buffer for injection system

55-0003 Rotameter for CO<sub>2</sub> buffer

55-0035 Pens, package of 5

55-0036 Charts, 24-hour, package of 100

55-0037 Charts, 7-day, package of 100



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