

# FC200-S Sewer Flow Monitor

Measure and Totalize Flows in Sewer Systems



- Digital LCD screen
- Easy to use interface with user selectable flow tables
- Highly accurate depth probe
- Output signal for recorders or displays
- Sampler triggering output
- Water resistant enclosure
- Great for inflow and infiltration studies

## Digital Flow Computer

The Global Sewer Flow Monitor has powerful internal electronic circuitry that calculates and totalizes sanitary sewer flow. The user chooses the desired engineering units and selects a VCP sanitary sewer pipe table from a list of over 20 pre-defined pipe tables. It is not necessary to open the enclosure to program the unit. All entries are made using the four front panel push buttons.

## Specifications

*Input:* 4-20 mA from provided Water Level Pressure Transducer  
*Output:* Isolated 4-20 mA proportional to flow, scalable pulse output proportional to flow for sampler triggering.

*Display:* 6 digit, LCD

*Accuracy:* Pressure transducer:  $\pm 0.2\%$  FS, Flow Monitor:  $\pm 0.01\%$  + the depth-flow-table error

*Flow Units:* CFS, GPM, m3s, MGD

*Totalizer:* Related to Flow Units

*Enclosure:* NEMA 4X (IP67)

*Power:* 120 VAC to 240 VAC

*Pre-defined VCP Sanitary Sewer Pipe tables:*

*Roughness Factor:* 0.014

*Pipe Diameter:* 6", 8", 12"

*Pipe Slope:* 1/2%, 1%, 1-1/2%, 2%, 3%, 4%, 6%, and 8%

Custom tables available. Please contact Global Water.

*NOTE:* Neither backed up nor pumped sewer systems will provide accurate flow measurements.

## Options and Accessories

**FC200-S** Sewer Flow Monitor

Includes 0-3' depth sensor or 25' of cable

**Battery option**

Includes Heavy Duty Environmental Enclosure

## Description

The Global Sewer Flow Monitor is reliable and accurate for measuring and totalizing sanitary sewer system flows for VCP pipe. The sewer flow meter measures water depth with the highly accurate Global Water pressure transducer. The electronic circuitry instantly calculates and displays sewer system's flow and total flow values for any depth-to-flow relationship in any engineering units. The sewer flow meter is easily set up in the field using its unique four-button programming system.

### Display and Outputs

The sewer flow monitor displays flow rate on a large 6-digit LCD screen. The totalized output is shown on a second LCD display. The display reads in user-defined units of flow, including MGD, CFS, GPM, m3s.

The sewer flow monitor also produces an analog 4-20 mA output signal that is proportional to flow. This can be used for chart recorders, dataloggers, or as an input to telemetry or process control systems. In addition, the sewer flow rate meter has a flow-proportional output signal for triggering water samplers.

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Our Address:

11390 Amalgam Way

Gold River, CA 95670