

FC200 Open Channel Flow Monitor

Measure and Totalize Flows in Open Channels



- 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

Digital Flow Computer

The Global Open Channel Flow Monitor has powerful internal electronic circuitry that calculates and totalizes flow. The user chooses the desired engineering units and selects a depth-flow-table from a list of over 20 pre-defined tables. All entries are made using the four front panel push buttons. It is not necessary to open the enclosure. The unit's manual includes depth-to-flow tables for all standard flumes and weirs.

Description

The Global Open Channel Flow Monitor is reliable and accurate for measuring and totalizing open channel flows for flumes and weirs, as well as any gravity-type open-channel flows. The water flow meter measures water depth with the highly accurate Global Water pressure transducer. The electronic circuitry instantly calculates and displays water flow and totalizer values for any depth-to-flow relationship in any engineering units. The open-channel flow meter is easily set up in the field using its unique four-button programming system.

Display and Outputs

The water 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 Global water 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 flow rate meter has a flow-proportional output signal for triggering water samplers.

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 tables:

Parshall: 1", 2", 3", 6", 9", 12"

Palmer-Bowllus (4D): 4", 6", 8", 10", 12"

Weir: 45° V notch, 90° V notch, 1' rectangular, 2' rectangular

H: 0.4HS, 0.6HS, 0.5H, 0.75H, 1.0H, 1.5H, 2.0H

Trapezoidal: 60°

Options and Accessories

FC200 Open Channel Flow Monitor
 Includes 0-3' depth sensor on 25' of cable

Battery option

Includes Heavy Duty Environmental Enclosure

Contact
 Global Water
 for all your
 instrumentation
 needs:

Water Level

Water Flow

Water Samplers

Water Quality

Weather

Remote Monitoring

Control



Global Water
 The Leader in Water Instrumentation

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