

# Ultrasonic solution for open channel monitoring

Signal processing with field experience



OCM III

Answers for industry.

**SIEMENS**

In addition to monitoring flowrate in wastewater applications, the OCM III can monitor industrial discharge, rainfall/storm water studies, inflow/infiltration studies, and sewer system evaluations. The OCM III is compatible with many standard weirs and flumes, and the programmable head versus flow curve (up to 16 points) accurately defines flowrate on non-standard primary devices. When combined with velocity input, the OCM III can use area/velocity calculations to measure and record flow data from virtually any source.

The OCM III has adjustable data logging with frequencies from once per minute to once per day, recording the average flowrate for the selected interval. Daily, the OCM III records min./max. temperature and flowrates, and the time they occurred, as well as daily flow totals. Advanced functions like variable rate logging, allow the OCM III to log at a higher rate when needed and automatically log less frequently under steady conditions to conserve data log space.

The OCM III has two-way communication via RS-232 with a modem or a bi-polar current loop with a current-to-voltage communication converter. Data logs can be downloaded to a file that can be manipulated into a spreadsheet or ASCII format.

<b>OCM III</b> High accuracy ultrasonic flow monitor for open channels. Used with the XRS-5 transducer.	
Range	1 to 4 ft. (0.3 to 1.2m), or 2 to 10 ft. (0.6 to 3m)
Accuracy	±1 mm/m, calculated error less than 0.02%
Key features	<ul style="list-style-type: none"> <li>• Influent and effluent monitor</li> <li>• BS3680 calculations provide exceptional accuracy</li> <li>• 1 to 24 months data log</li> <li>• Sampler control</li> <li>• Low power remote monitoring</li> <li>• AC and DC operation. Automatically switches to battery operation for uninterrupted power</li> <li>• Remote connection via modem</li> <li>• Temperature sensor input</li> </ul>
Output	3 relays, 4 to 20 mA (isolated)
Communications	Via RS-232 Option • Flow Reporter Software
Power specifications	<ul style="list-style-type: none"> <li>• 100/115/200/230 VAC, ±15%, 50/60 Hz, 20 VA max.</li> <li>• 9 to 30 VDC, 8 W</li> </ul>
Approvals	CE, CSA <sub>NRTL/C</sub> , FM, MCERTS



FMS320 Extended Floor Bracket



FMS350 Channel Bracket

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