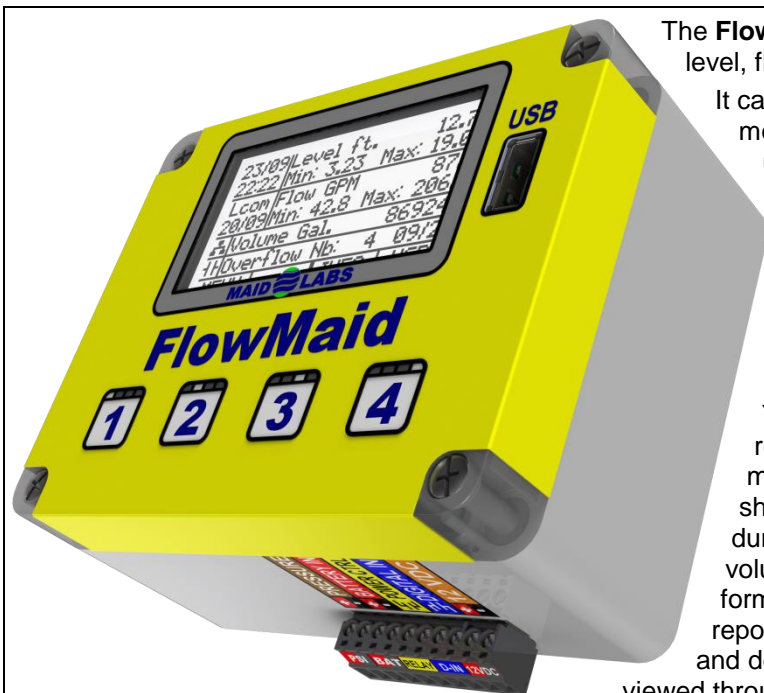


# FlowMaid

Open Channel Flow Meter

MLFM



The **FlowMaid** is a small monitoring device used to record level, flow, volume and discrete events.

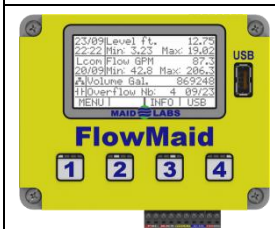
It calculates the losses during a SSO event by monitoring surcharge level and using the Manning equation to calculate the flow volumes. The setup requirement is to enter the level of the overflow pipe, its diameter, material and slope.

Years of data can be recorded before filling its memory. Every event shows start and end time, duration, average flow and volume lost. An Excel formatted monthly summary report shows daily cumulative and detailed events. Data can be viewed through the MaidMaps Web server.

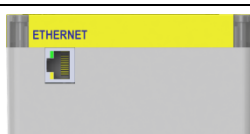


Battery operated submersible enclosure with optional built-in cellular modem

The relay output can be remotely activated or based on start of a SSO event. To maximize battery life, the relay output can be used to interrupt the level sensors power supply or cellular modem.



4.52 x 2.19 in  
11.48 x 5.55 cm  
Bottom



4.52 x 2.19 in  
11.48 x 5.55 cm  
Top



3.89 x 2.19 in  
9.88 x 5.55 cm  
Side



MaidMap Geographic Web Server

Name/Item No.	FlowMaid/ MLFM
Product type	Open Channel Flow Meter
Types of Recorded and Displayed Data (Date & Time Stamped)	Level, Flow, Volume, Volume Lost During Overflow Event,
Level and Flow Accuracy	Based on Level sensor specifications and Flow equation used. Available formulas: Manning, Manning for open channel, California pipe, Rectangular weir with end contractions, Rectangular weir without end contractions, V-notch (or triangular) weir and Trapezoidal (or Cipolletti) weir or use a standard or polynomial flow formula or a lookup table.
Alarm detection	Max. & Min. Level and Flow
Alarm Actions (Internet or Cell.)	Email, Color Changes on Map
Internet Functions	Email, Level and Flow Displayed on Map
Digital Input	1
Digital Input Frequency	1 kHz
4-20mA Analog Input	Level Sensor
Reading speed of analog input	1 Hz
Analog input accuracy	± 0.1 %.
Digital Output	1, Activated with Alarm Setup or Remote Manually.
Internal Temperature Sensor	Yes

Memory Size	2 Gbyte
Memory (Event Capacity)	20 Meg Events
External Power	12 Vdc @ 1 Amp
Operation Time on Batteries Only	48 Hours
Internal Power, Battery Backup	2 Type C Rechargeables Batteries
Integrated Battery Charger	YES
Download Via	USB Drive and Internet
Communication Interface	USB and Ethernet
Display	128 x 64 Bit Graphic, Backlit
Keyboard	4 Soft Keys
Installation Options	Stainless Steel 45° and 90° quick release bracket. Battery operated submersible enclosure.
Dimension (inches)	4.5 x 3.9 x 2.2
Dimensions (cm)	11.5 x 9.9 x 5.6
Weight including 2 batteries	1 lb/0.45 kg
Information Displayed	Level, flow, Volume Lost During Overflow Event, Historical Data, Setup, Daily and Monthly Graphs.
Exportable Data	Displayed and Historical
Accessories	External Power Supply, Level Sensor, Mounting Brackets, Cellular Modem, Submersible enclosure.

# FlowMaid

Select the formula for your application: Manning, Manning for open channel, California pipe, Rectangular weir with end contractions, Rectangular weir without end contractions, V-notch (or triangular) weir and Trapezoidal (or Cipolletti) weir or use a standard or polynomial flow formula or a lookup table.

