



Model 801 - EM Flow Meter

The Model 801 Electromagnetic Flow Meter measures the speed of water in Open Channel environments with exceptional accuracy. The smaller sampling volume of the flat sensor makes it suitable for shallow flows, or measurements in confined spaces.

DATA SHEET

Product Details



CURRENT

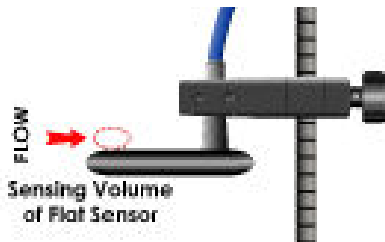


CDU EXPRESS
SOFTWARE

Specifications

Model 801 - Flat Type

Range	-5 m/s - +5 m/s
Accuracy	±0.5% of reading plus 5 mm/s
Zero Drift	<5 mm/s
Sensing Volume	Cylinder of approx. Ø20 mm x 10 mm high
Minimum Depth	5 cm



Data Acquisition

The Model 801 Flow Meter is supplied with a dedicated Control Display Unit that both drives the sensor and provides data display of the measured water velocity.

Data is updated at 1 Hz, and may be averaged over any number of seconds from 1 to 600. The display will show real time speed data at a resolution of 1 mm/s, as well as the result of the data average, and a Standard Deviation figure to give added data confidence. A solid state memory records all results (up to 999 averaged readings), and the data may be downloaded to PC using the RS232 interface lead supplied.

Calibration

The Model 801 is calibrated at Valeport's own premises up to speeds of 1 m/s. Higher speed measurements are based on linear extrapolation. Specific high speed calibrations can be arranged at a third party facility on request.

Control Display Unit

Size	244 mm x 163 mm x 94 mm, 2 kg
Environmental	Sealed to IP67
Power	8x alkaline C cells, up to 37 hrs operation
Operating Temp	-5°C - +50°C (display unit) -5°C - + 40°C (sensor)

Application

The Model 801 is available for use as hand held "Wading Sets" only, with the operator standing in the channel, holding the instrument in position. The system is supplied with 1.5 m wading rod (3 x 0.5 m sections), graduated in cm, and a 3 m cable from instrument to display unit.

Alternatively, a "top-setting" wading rod system is available, which allows the vertical position of the instrument to be set without removing the wading rods from the water.

Software

System is supplied with CDUEXpress Windows based PC software, for data extraction from display unit. CDU Express is licence free.

Shipping

Standard	62 cm x 42 cm x 34 cm, 9 kg (wading set)
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Ordering

0801002-XX	Single Axis - Flat Sensor with Control Display Unit, interface cable and operating manual in an ABS transit case
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The above systems are supplied with:

- 2, 5 or 12 m cable (different lengths on request)
- Wading rod set
- 3 x 0.5 m graduated rods, base and direction knob, in a canvas carrying bag

Note	Where XX = Cable length of 2, 5 or 12m
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Options

0801003	Wading Rod Set supplied with: <ul style="list-style-type: none">• 3 x 0.5 m graduated rods, base and direction knob, in a canvas carrying bag
0001050	Top Setting Wading Rod Set for use with standard wading rod set consisting of: <ul style="list-style-type: none">• 3 x 0.5 m graduated rods and necessary mounting brackets, in a canvas carrying bag
0801011	Large transit case for instrument and wading rods
0300EA3	External DC power option (includes DC power input lead)

Datasheet Reference: Model 801 - EM Flow Meter | February 2024

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