

# VALEPORT 803 ROV CURRENT METER



## GENERAL DESCRIPTION

The Model 803 ROV Current Meter is a unique instrument, providing ROV pilots with relative water velocity data in real time. It may be fitted to ROVs to provide actual through the water speeds, or fitted to Tether Management Systems to give a measurement of local flow conditions.

This instrument is the result of combining Valeport's proven current sensing technology with the knowledge and experience of some of the UK's leading ROV manufacturers and operators. The concept is simple - the Model 803 consists of a Valeport 2 axis electromagnetic flow sensor, with processing electronics capable of giving a variety of output formats for easy interface to almost any system.

The sensor should be mounted in clear flow on the ROV or TMS. When power is applied to the sensor, it measures the water velocity in 2 axes across the sensor surface. This data is updated at 1 seconds intervals, to provide X and Y axis flow information: the X axis is flow across the vehicle, and the Y axis is flow into the vehicle.

Available as a complete self-contained instrument, or with a separate sensor and electronics package, or even as an OEM system, the Model 803 will appeal both to operators who wish to improve their existing vehicles, and to manufacturers who want to offer it as an additional parameter in the sensor package.

### Features

- Real Time "through the water" Velocity for:
  - ROVs
  - AUVs
  - TMSs
- Choice of output formats for easy integration
- Range of packaging options to suit all needs
- Latest electromagnetic sensor technology gives stable, accurate measurements
- Titanium and polymer construction:
  - Lightweight design has minimal effect on vehicle balance
  - Up to 3000m depth rating



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Accredited to BS EN ISO 9001:2000

# VALEPORT 803

## ROV CURRENT METER

### TECHNICAL SPECIFICATIONS

#### CONSTRUCTION

Sensor: Polyurethane with titanium mounting  
Electronics Housing: Acetal for 1000m depth rating, titanium for 3000m depth rating  
Weight in water: 0.5kg (acetal), 3.5kg (titanium). Figures are for Integral Unit.  
Connector: 8way Subconn

#### PERFORMANCE

Units: Knots standard, option: m/s  
Range: +/- 10knots (+/-5m/s)  
Accuracy: +/-1% reading + 1cm/s  
Resolution: 0.01kts (0.001m/s)

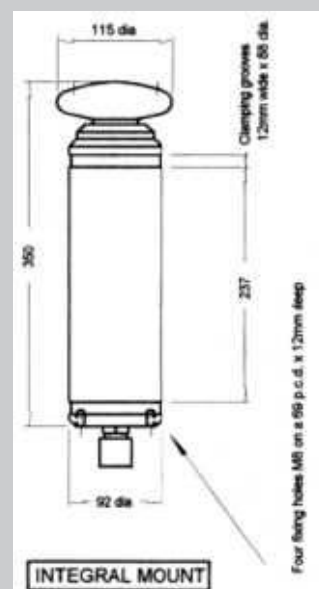
#### OUTPUT FORMATS

Analogue: -5 to +5v for each channel (0-5v or 0-10v optional)

Digital: RS232 or RS485 (factory set).  
19200 baud, 8 data bits, 1 stop bit, no parity bits.

String format: Kts sxx.xx<tab>sy.yy<cr><lf>  
M/s sx.xxx<tab>sy.yyy<cr><lf>  
where: s=sign, + or -  
xx.xx or x.xxx = speed  
on X axis (including leading zero)  
yy.yy or y.yyy = speed on Y axis (including leading zero)

Update rate: 1Hz default  
Power: 7-29vDC, 2W nominal



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