HOBO
Data Loggers

TCM-1

Lowell Instruments Tilt Current Meter

Measures water velocity at high and low current ranges

Simply designed with a lower cost, the TCM-1 tilt current meter is ideal for measuring water velocity at multiple locations, from inland to the edge of the continental shelf.

Important Information
Requires Domino for Windows® Software (Free Download) and compatible computer. TCM-1 Data Sheet

Supported Measurements

Tilt/Acceleration (water), Ocean Current

Features

- 300 meter depth rating
- Measures water velocity for a fraction of the cost of an acoustic meter
- Tilt compensated compass for bearing measurements
- Simple, rugged, low maintenance design
- Seaweed snag-resistant
- Change range in the field without software
- 8 GB MicroSD memory card virtually eliminates memory concerns
- Temperature sensor accurate to +/-0.1C

- Lithium battery allows continuous 4Hz sampling for more than 1 year
- USB 2.0 with standard cable and drag and drop data file offload

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support www.onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

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Lowell Instruments Tilt Current Meter (TCM-1) Specifications

Speed (Low Range w/ Ballast Washer)

Range	0-40 cm/s
Accuracy	2 cm/s + 3% of reading
Resolution	0.1 cm/s

Speed (High Range w/ Ballast Washer)

Range	0-80 cm/s
Accuracy	3 cm/s + 3% of reading
Resolution	0.1 cm/s

Direction

Range	0-360°
Accuracy	5° (for speed >5 cm/s)
Resolution	0.1°

Temperature

Range: -5 to 30 °C	Accuracy: 0.1 °C Resolution: <0.005 °C
Range: -20 to -5, 30 to 50°C	Accuracy: 0.2 °C Resolution: <0.01 °C

Electronics

Memory	8 GB microSDHC flash card (standard)
Communications	Full speed USB micro-B port
Battery Type	Months to years depending on recording rates
Internal Clock	< 1 minute of error per month

Operating Modes

Start and Stop	Start and Stop at user defined times
Burst Mode	Variable rate logging at user defined interval
Recording Rate	Current: 64 Hz to 1 sample per hour with typical settings of one 20 second burst @ 8 Hz per minute (12-month battery life) Temperature: 1 Hz to 1 sample per hour

Mechanical

Minimum Depth	76 cm (30 in)
Depth Rating	300 m (1000 ft)
Dimensions	Diameter: 2.7 cm (1.05 in) Length: 73 cm (28.75 in) not including lanyard
Weight	340 g (12 oz)
Construction	Gray PVC housing with EPDM O-ring

Software

User Interface	Domino for Windows® - Free Download
USB	USB 2.0 compliant MSC and CDC Classes
Firmware	Field upgradable via USB cable