

TCM-4

Lowell Instruments Shallow Water Tilt Current Meter

Measures water velocity in shallow water environments

Able to operate in less than one foot of water with no external sensors or floats, the TCM-4 Tilt Current Meter is ideal for measuring water velocity in shallow water environments like coastal ponds, bays, and tidal flats.

Important Information

Requires Domino for Windows[®] Software (Free Download) and compatible computer. TCM-4 Data Sheet



Supported Measurements

Tilt/Acceleration (water), Ocean Current

Features

- 30 meter depth rating
- Measures water velocity for a fraction of the cost of an acoustic meter
- Operates in as little as 28 cm (11 inches) of water
- Tilt compensated compass for bearing measurements

- Simple, rugged, low maintenance design
- User replaceable lithium battery
- Battery life is more than a year with 1-minute logging
- 8 GB memory card virtually eliminates memory concerns
- Temperature sensor accurate to +/-0.1C
- 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 Shallow Water Tilt Current Meter (TCM-4) Specifications

Speed (Recommended Range)

Range	0-50 cm/s
Accuracy	3 cm/s + 3% of reading
Resolution	0.1 cm/s

Speed (Maximum Range)

Range	0-75 cm/s
Accuracy	Not Specified
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

Depth Rating	30 m (100 ft)
Dimensions	Diameter: 2.54 cm (1.00 in) Length: 25.4cm (10.0 in)
Weight	98 g (3.5 oz)
Construction	Housing: Carbon Fiber and Epoxy Laminate with PVC & PETG fittings, 316 Stainless Steel Screw and Buna and EPDM O-rings.

Software

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