

UCM-60



- **Built-in compass and tilt** sensors allow output of absolute current values as well as current values relative to the instrument.
- **Direct measurement of** sound velocity.
- Optional sensors include conductivity, temperature and pressure.
- Built in real-time clock with alarm function.
- Operated from a standard terminal (VT-100) or terminal emulator. Selectable human interface: **Menu or Command Line** mode.
- Data output in scientific units -- fully calibrated and compensated. Additional output of parameters such as salinity and depth.
- **Maximum operating depth** is 2000 meter. Optional 6000 meter version is available.

UCM-60, sixth generation current meter from Sensortec as, is in fact a stand-alone system that may include additional sensors. This unit measures 3D water flow as well as CTD. Measuring principle for the current is the well proven acoustic travel time difference (ATT).

Current is continuously corrected for variations in sound velocity and the

turbulence and wake effects are compensated automatically in software.

The system is fully configured via a menu. The instrument can for instance be set to transmit data at a 2 Hz rate or vector average data for a time period up to 24 hours. A start time (alarm) can be preset up to 30 days to initialize current meter operation.

Communication with the UCM-60 is via RS232. All data processing is done in the instrument, and it is designed to communicate with any standard terminal (characters in ASCII code). Data output is presented as numbers in engineering units.

The absence of moving parts reduces mechanical wear to a minimum and makes it less sensitive to marine growth and pollution in the sea.

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Current velocity sensors

Programmable +/-3 m/s or Range +/-6 m/s Resolution: 1 mm/s

2 mm/s at 6 m/s range 1% of reading +/- 5 mm/s Accuracy, whichever is greater

normal operation

Accuracy. 3% of range +/-5mm/s

heavy tilted worst case

Sound velocity sensor (standard)

Range: 1380 - 1580 m/s Resolution: 2 m/s Accuracy: 5 m/s

Temperature sensor (optional)

-5°C to +45°C Range: Resolution: 0.01°C 0.01°C Resolution: Accuracy: 0.1°C

Response: < 1s

Option

Resolution: 0.01°C 0.02°C Accuracy:

Pressure sensor (optional)

Range: Various ranges up to 0-600

Resolution: 0.04% FS 0.25% FS Accuracy:

Drift: 0.7% TEB (0-50°C)

Response: 0.05 sec.

Conductivity sensor (optional)

Range: 2-74 mmoh/cm Resolution: 0.01 mmoh/cm 0.06 mmoh/cm Accuracy: Response: 0.05 sec.

Fluxgate compass (standard)

Range: 0-360 deg. Resolution: 1 deg. Accuracy: +/- 1 deg. Response: 0.05 sec.

Tilt sensor (standard)

0-30 deg. Range: Resolution: 10% of reading Response: 0.05 sec.

Depth capability

2000m (standard) Depth: 6000m (optional)

Communication

Standard: RS232-C

300, 600, 1200, 2400, Baud rate:

4800 and 9600

Sampling and Data rate

Sampling Up to 20 Hz.

frequency:

Data output Max 2 Hz.

rate:

Power Requirements

External power 12 to 28 V DC

supply:

Power Approx. 1W

consumption:

Housing

Stainless steel AISI 316 L

Sensortec reserves the rights to alter specifications without giving prior notice



Optional frame.



Optional temperature sensor.



Optional Conductivity



Optional Pressure Sensor

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