



UCM-60

- **High precision 3D Current** Metering.
- **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

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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 velocit	ty sensors
Programmable Range	+/-3 m/s or +/-6 m/s
Resolution:	1 mm/s 2 mm/s at 6 m/s range
Accuracy, normal operation	1% of reading +/- 5 mm/s whichever is greater
Accuracy, worst case	3% of range +/-5mm/s heavy tilted
Sound velocity	/ sensor (standard)
Range:	1380 - 1580 m/s
Resolution:	2 m/s
Accuracy:	5 m/s
Temperature s	ensor (optional)
Range:	-5°C to +45°C
Resolution:	0.01°C
Resolution:	0.01°C
Accuracy:	0.1°C
Response:	< 1s
Option	
Resolution:	0.01°C
Accuracy:	0.02°C
Pressure sensor (optional)	
Range:	Various ranges up to 0-600 bar
Resolution:	0.04% FS
Accuracy:	0.25% FS

Drift: Response:	0.7% TEB (0-50°C) 0.05 sec.	
Conductivity s	ensor (optional)	
Range:	2-74 mmoh/cm	
Resolution:	0.01 mmoh/cm	
Accuracy:	0.06 mmoh/cm	
Response:	0.05 sec.	
Fluxgate compass (standard)		
Range:	0-360 deg.	
Resolution:	1 deg.	
Accuracy:	+/- 1 deg.	
Response:	0.05 sec.	
Tilt sensor (sta	andard)	
Range:	0-30 deg.	
Resolution:	10% of reading	
Response:	0.05 sec.	
Depth capabili	ty	
Depth:	2000m (standard) 6000m (optional)	
Communicatio	on	
Standard:	RS232-C	
Baud rate:	300, 600, 1200, 2400, 4800 and 9600	
Baud rate: Sampling and	4800 and 9600	
	4800 and 9600	
Sampling and Sampling	4800 and 9600 Data rate	
Sampling and Sampling frequency: Data output rate:	4800 and 9600 Data rate Up to 20 Hz. Max 2 Hz.	
Sampling and Sampling frequency: Data output	4800 and 9600 Data rate Up to 20 Hz. Max 2 Hz. ements	
Sampling and Sampling frequency: Data output rate: Power Require External power	4800 and 9600 Data rate Up to 20 Hz. Max 2 Hz. ements	
Sampling and Sampling frequency: Data output rate: Power Require External power supply: Power	4800 and 9600 Data rate Up to 20 Hz. Max 2 Hz. ements 12 to 28 V DC	
Sampling and Sampling frequency: Data output rate: Power Require External power supply: Power consumption:	4800 and 9600 Data rate Up to 20 Hz. Max 2 Hz. ements 12 to 28 V DC Approx. 1W	







Optional Pressure Sensor

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