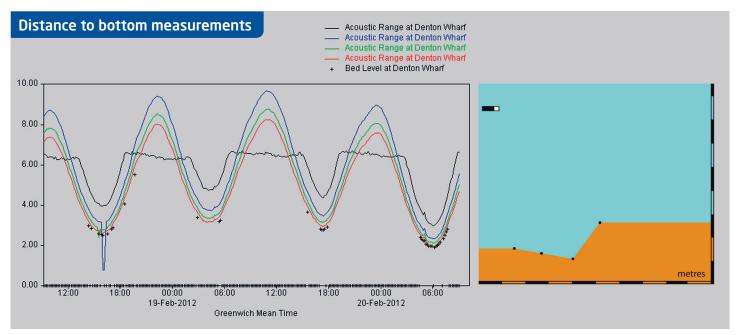
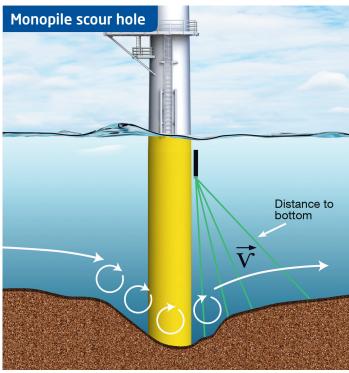
What's the distance to the seabed? How deep is my scour hole? What shape does it have? At what rate does sedimentation build up in my dam/reservoir? The answers to these questions are provided by the **Nortek Scour Monitor**; an instrument that measures the distance to the seabed along four downward looking narrow acoustic beams that fan out in a single axial plane. Changes in seabed level (scour) are measured in real-time and relayed back from the field, even during storm periods, thus providing invaluable information for modelers of these crucial changes, as they occur.

Scour Monitor

Acoustic measurements of distance to seabed



The distance from the Scour Monitor to the seabed along each of the four beams is instantly displayed on a password-protected web site. The displayed data are corrected for tilt and beam angles, to provide true bottom elevation as a function of time. Data are displayed both graphically and numerically.



The intensity of the acoustic return signal along four narrow beams, with angles 10, 20, 30, and 45 degrees from the vertical is measured. The bottom reflection provides a strong peak in signal amplitude, which is used to determine the exact distance.



The Scour Monitor head, showing the four transducer arrangement. The instrument has no protruding parts, making mounting arrangements less susceptible to damage.

CURRENT AND WAVE MEASUREMENTS IN THE OCEAN, LAKE AND LABORATORY



Nortek AS Vangkroken 2 1351 Rud, Norway Tel: +47 6717 4500 Fax: +47 6713 6770 E-mail: inquiry@nortek.no



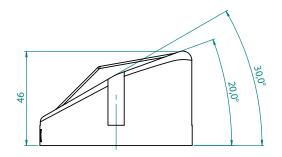
Technical Specifications

Transducer		
Frequency:	2.0 MHz	1.0 MHz
Beam width:	1.7°	3.4°
Beam angles:	10°, 20°, 30° and 45°	10°, 20°, 30° and 45°
Resolution:	1-1.5 cm	2-3 cm
Blanking distance:	0.1 m	7.om
Measurement		
Vertical range:	10 m	30 m
Along beam range:	19.4 m	45.4 m
Number of cells:	96	96
Measurement region:	0.1 m - 10 m	7.0 m - 30 m
Cell size:	20 cm	40 cm
Accuracy:	10 cm	20 cm
Temperature: Thermistor embedded in sensor head		
Range:	-4°C to 30°C	
Accuracy/resolution:	0.1°C/o.o1°C	
Time response:	10 min	
Tilt: Liquid level		

0.2°/o.1°

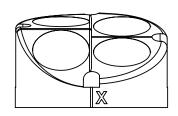
Automatic detect

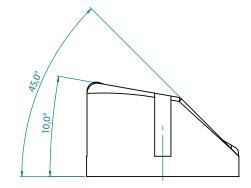
Data communication		
I/O:	RS232, RS422	
Baud rate:	9600 standard, 300-115200 (User setting)	
Internal recording		
Capacity:	9 Mb expandable	
Power		
DC input:	9-16 VDC	
Internal battery:	18AA Alkaline cells/50 Wh	
New battery voltage:	13.5 VDC	
Materials		
Standard model:	Delrin® and polyurethane	
Dimensions		
Weight in air:	1.7 kg	
Weight in water:	0.7 kg buoyant	
Lenght:	590 mm	
Diameter:	75 mm	

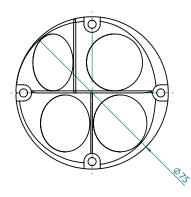


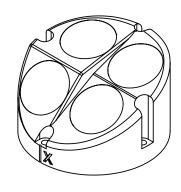
Accuracy/resolution

Maximum tilt: Up or down:









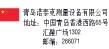
All dimensions in mm.





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