

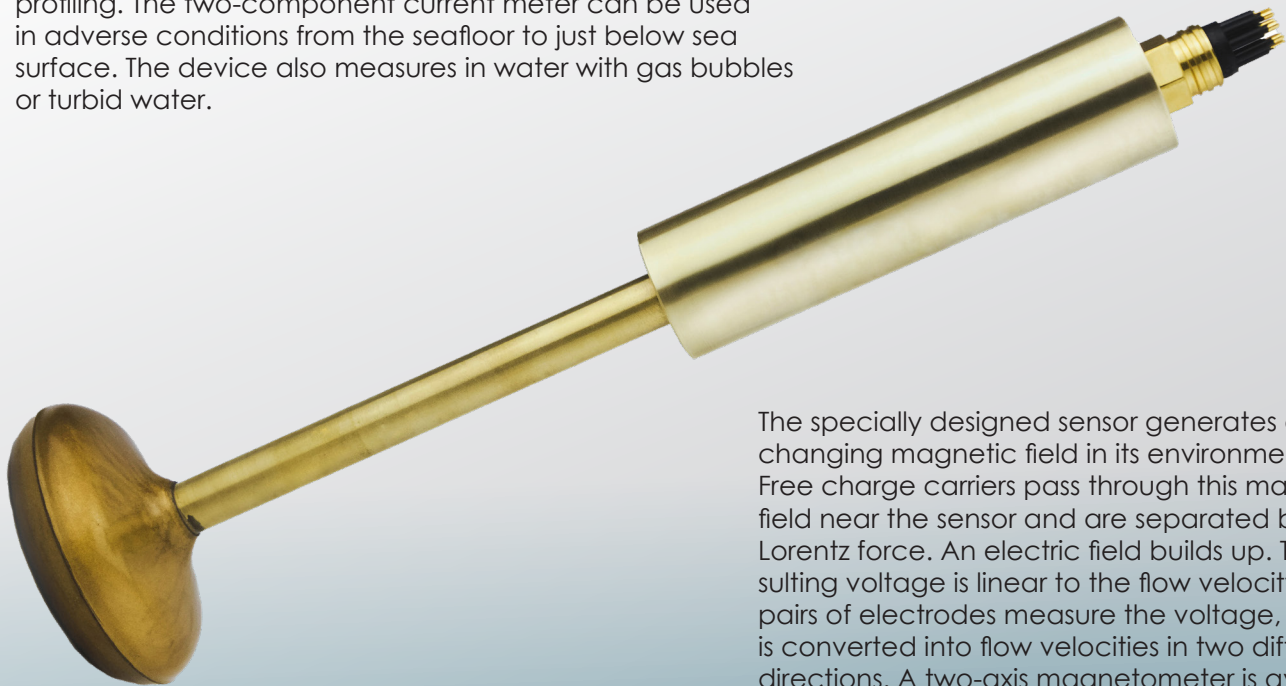
## Current meter | external

max. depth 7000 m.



Sea & Sun  
Technology

The Inductive Sensing Current Meter ISM-2001 is a robust sensor that is suitable for both long-term monitoring and profiling. The two-component current meter can be used in adverse conditions from the seafloor to just below sea surface. The device also measures in water with gas bubbles or turbid water.



The specially designed sensor generates a changing magnetic field in its environment. Free charge carriers pass through this magnetic field near the sensor and are separated by the Lorentz force. An electric field builds up. The resulting voltage is linear to the flow velocity. Two pairs of electrodes measure the voltage, which is converted into flow velocities in two different directions. A two-axis magnetometer is available as a compass for precise output of the current direction.

Current meter	
Pressure resistance	1000 dbar, 7000 dbar
Measuring range	-3 m/s...+3 m/s (Standard)
Accuracy	$\pm 0,5\%$ Rd + 0,5% FS
Principle	inductive
Dimensions	sensor: $\varnothing$ 85 mm, 30 mm length shaft: $\varnothing$ 16 mm, 170 mm length electronic: $\varnothing$ 40 mm, 145 mm length
Used for	CTD60Mc, CTD75M, CTD90, CTD90M, CTD115M



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