

## CURRENT METER



**APPLICATION:** The current meter is a self-contained current measuring sensor designed to measure the true magnitude and direction of horizontal current motion in any water environment.

**DESCRIPTION:** The InterOcean S4 current meter is software controlled and measures the voltage resulting from the motion of a conductor (water flow velocity) through a magnetic field, which is generated inside the S4. The range of the meter is 0-350 cm/sec, accuracy is 2% of the reading +/- 1 cm/sec, and the resolution is 0.03 to 0.35 cm/sec depending on selected range. The unit is battery powered and has a battery life of five years. The S4 is depth rated to 1,000 meters, weighs 11 kg (24 lbs.) in air and 1.5 kg (4 lbs.) in water, and operates in temperatures between  $-5$  to  $+45^{\circ}\text{C}$ . All electronics and power necessary for operation of the current meter are contained internally in a high strength, corrosion proof plastic sphere. Connection to a mooring is by means of an axial shaft with eyes on each end. Heavy duty, lockable cement bases are available for deploying the S4 on the sea floor.