



APPLICATION EXAMPLE: **MANTRACOURT HELPS CREATE OCEAN ENERGY**

THE APPLICATION

This application demonstrates how the Strain Gauge Amplifier (SGA) was used in the Wave Energy Prize sponsored by the US Department of Energy.

In conjunction with Mantracourt's Business Partner, Applied Measurements Ltd, they provided Mocean Energy with a complete torque measuring system for a 1/50th scale model wave energy converter.

The prototype was tested and evaluated in a wave tank with plans for a full scale version to convert wave force into electricity.

The SGA conditioned the torque sensor's output signal into a high-level industry standard signal ready for integration to a data acquisition system.



KEY BENEFITS

- ▶ The SGA was the perfect choice for this low torque measuring application with its dip switch configured, wide sensitivity range.
- ▶ Industry standard analogue outputs (± 5 , ± 10 , 0-10 and 4-20mA).
- ▶ The SGA provides a stable, high accuracy, low noise output signal for control and analysis applications.

