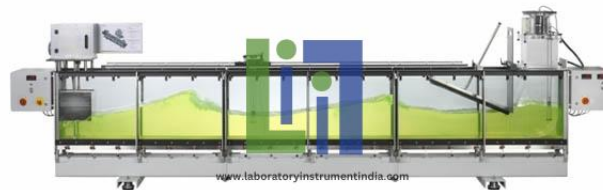




Email : sales@laboratoryinstrumentindia.com

Product Name :
Wave Energy Converter OWC

Product Code :
LBNY-0005-12500014



Description :

It is a laboratory-scale wave energy converter consisting of a wave generator, a wave flume and the OWC wave energy converter with turbine unit. Structurally they are easy to integrate into moles, harbour walls and coastal protection systems. Wave energy converters use the energy from continuous wave movements for the environmentally friendly production of electricity. They can supply electrical energy along the coast, in particular to remote locations.

Learning Objectives And Experiments:

Measurement of wave motions
Familiarisation with design and operation of a Wells turbine
Familiarisation with operating principles of a wave energy converter
Understanding of energy generation from wave motion
Optimisation of operating behavior.

Technical Specification :

Wave energy converter with oscillating water column, chamber and turbine unit
Turbine unit with rotor and generator
Pressure measuring points to determine the flow velocity in the turbine
Wave energy converter consisting of: wave generator, wave flume and wave energy converter
Wave height measured by ultrasound
Baffle plate for guiding the wave into the chamber
Wave generator with control unit, AC motor with adjustable frequency and adjustable lift of displacer
Turbine load: DC motor for starting up the turbine, switches to generator for electricity production upon reaching

the target speed.



Laboratory Instrument India