



Underwater Sensors

Shallow and deep water foundation testing

Installing piles underwater is a major task in the construction of offshore oil platforms, wind farms, ports and bridges. High strain dynamic pile testing consists of measuring strain and acceleration during pile driving to evaluate driving stresses, hammer performance and bearing capacity.

High strain dynamic testing during underwater driving requires underwater sensors. Underwater measurements are challenging due to the need for waterproof transducers, cables and connectors; due to the difficulties of handling the heavy cables; and due to their physical interference with other equipment, such as Remotely Operated Vehicles (ROV).

Pile Dynamics, Inc., offers Shallow Water (up to 50 meters) and Deep Water (up to 300 meters) waterproof Strain Transducers and Accelerometers for use with the Pile Driving Analyzer® (PDA). PDI's underwater sensors are reliable, durable and easy to install.

Shallow Water Piezoelectric (PE) Accelerometer
Compatible with PDI connection cable (dry connectors) for use with PDA model 8G or PAX; encapsulated and waterproof to at least 50 meters for 1 week

Shallow Water Piezoresistive (PR) Accelerometer
Compatible with PDI connection cable (dry connectors) for use with PDA model 8G or PAX and waterproof to 50 meters for 1 week

Shallow Water Strain Transducers
Compatible with PDI connection cable (dry connectors) for use with PDA model 8G or PAX; waterproof for 50 meters for 1 week



Deep Water Strain Transducer
Compatible with PDI underwater main cable for use with the PDA model 8G or PAX; encapsulated and waterproof to at least 1500 meters for 2 weeks

Deep Water Piezoelectric (PE) Accelerometer
Compatible with PDI underwater main cable for use with the PDA model 8G or PAX; encapsulated and waterproof at least 1500 meters for 2 weeks

Deep Water Main Cable
Compatible with PDI underwater sensors and PDA model 8G or PAX

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Pile Dynamics, Inc. (PDI) is the world leader in developing, manufacturing and supplying state of the art QA/QC products and systems for the deep foundations industry. The company is headquartered in Cleveland, Ohio, USA, with offices and representatives worldwide. For additional information visit us at www.pile.com or contact info@pile.com.