

PAL-R PRESS RELEASE



PDI'S new REMOTE model of the Pile Driving Analyzer⁷ - PAL-R: Pile Driving Monitoring and Dynamic Pile Testing via cell phone

Pile Driving Analyzers (PDAs) have been used to test all types of deep foundations for more than 30 years. The PAL-R is a PDA that lets an engineer follow deep foundation testing from a remote location. The PAL-R records and processes force and velocity signals obtained either during pile driving, during a pile restrike, or by impacting a non driven pile with a drop weight. Up to now, an engineer had to travel to the job site to operate a PDA and obtain these signals. With the PAL-R ("R" is for remote) only the equipment is sent to the site. Technicians or the pile crew can be trained to install sensors on the pile to be tested, connect the sensors to the PAL-R, and dial up the engineer's office. The engineer remains in the office and controls the PAL-R operation via a cell phone connection to the job site. Special software (PDA-W) in the engineer's office computer uses the force and velocity signals obtained by the PAL-R in the field to calculate **pile capacity by the Case Method, driving stresses, hammer efficiency and pile integrity**, all in real time.

The advantages of this development are clear: no travel time or expenses for the engineer and the same real time results as if the engineer were on site. One engineer can even monitor several sites at once, provided that more than one PAL-R is available. Furthermore, the engineer can immediately start the post processing and analysis of the data obtained in the field. If a cell phone connection is not available, the PAL-R may be operated in data collection only mode (acquired data stored and later transmitted to the office) or in local mode (direct connection to a laptop loaded with PDA-W software, and an engineer on site).

The PAL-R measures only 65 mm by 175 mm by 200 mm, and weights about 1.3 kg.

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