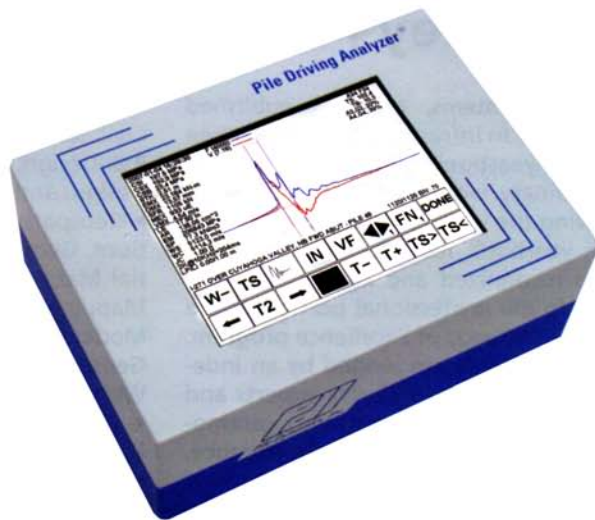


Dynamic Load Testing of Deep Foundations via Broadband

Engineers around the world have been using the Pile Driving Analyzer® (PDA) to verify the bearing capacity of deep foundations for more than 30 years. In spite of the verb “driving” in its well recognized name, the instrument is employed on load testing of cast in situ piles just as routinely as it is employed on the testing of driven piles. High strain dynamic tests, as tests performed with PDAs are commonly known, are carried out quickly and are non-destructive. Properly interpreted dynamic test results correlate very well with foundation capacities obtained from conventional static load tests.

Pile Dynamics, Inc. has announced the introduction of a new model of Pile Driving Analyzer- the PDA model PAX. The PAX crowns the succession of improvements that PDAs have experienced during their lifetime. It is sufficiently small to be portable, is battery operated, and, at only 5 kg, surprisingly light. Its display doubles up as its control panel and keyboard, and has extremely high visibility in all lighting conditions. Perhaps the most appealing feature of the new device is its remote data transmission capability. Pile Dynamics conceived the idea of collecting dynamic testing data on site and trans-



mitting it to an office computer back in the 1990s, and patented the first remote data transmitting PDA in 2001. PDI has now taken remote dynamic testing to the next technological level by incorporating broad band internet technology on the PAX. When used in its “remote mode” the PAX offers a field crew a simple software interface and straightforward mode of operation. An office computer running PDA-W and receiving data gives the engineer the ability to perform comprehensive monitoring and analysis in real time. ■

إستعمل المهندسون نظام PDA من شركة Pile Dynamics للتأكد من القدرة التحملية للأساسات العميقة على مدى أكثر من من ثلاثين سنة. أما اليوم فقد إستحدثت الشركة نمونجا جديد من PDA يعرف ب PAX ويعمل على إرسال المعلومات عن بعد وفق تكنولوجيا الإنترنت الواسعة النطاق. يتميز PAX بصغر الحجم وبخفة وزنه (٥ كغ) وسهولة حمله.