

# Wireless Pile Integrity Tester Unveiled

Pulse echo integrity testing has long been used to quickly verify the integrity and length of deep foundations. **Pile Dynamics** first developed an instrument to perform this test in 1991 — the Pile Integrity Tester (PIT). In fact, the term “PIT test” is often used in lieu of “pulse echo test.” The method is also known as low strain dynamic foundation testing, a term used in the ASTM document that standardizes it

(ASTM D5882). The PIT test involves placing an accelerometer on the foundation and hitting it with a hand-held hammer. The accelerometer sends data to the PIT; records are visually evaluated immediately, and later analyzed in further detail.

Pile Dynamics recently launched the PIT-X, a palm-size Pile Integrity Tester, and works with a wireless accelerometer. All functions available on the latest edition of



the PIT-V model are the same, including a built-in Fast Fourier Transform (FFT) feature that is helpful to detect the length of short foundation elements in the field.

PDI has also updated the PIT post processing/data analysis software, PIT-W, having recently launched PIT-W 2009 in both standard and professional versions.