

V-METER MK IV™

Brand : NDT-James

Country : USA



The most advanced ultra-sonic test system for accurately identifying basic characteristics of coarse grained materials such as concrete, wood, masonry, ceramic, graphite and more!

Applications

- Locate Honey Combs and Voids in Concrete
- Locate Cracks in Concrete, Ceramics, Masonry or Stone
- Determine Fire Damage Extent in Concrete or Masonry
- Crack Depth Determination
- Determining Young's Modulus (with optional Shear Wave Transducers)
- Find Hidden Areas of Rotting Wood

Features & Benefits

- System has a direct digital read-out of transit time, and read out of wave form on daylight display, back lit LCD.
- Rugged and splash resistant case is built for tough construction environments. Portable, and light weight with both rechargeable battery and standard A-C power.
- Includes a signal and trigger output for use with external oscilloscope or other data input device. Digital calibration means no special bar required. Trigger levels and Signal amplification can be digitally adjusted.
- Conforms to ASTM C-597, BS 1881-203 and other international standards
- USB interface for computer control. Veelinx™ software allows complete control of the system as well as data upload to a PC and data analysis.
- Direct reading of calculated P-wave velocity and S-wave velocity. The unit can also calculate modulus of elasticity of material using optional S-Wave Transducers. Direct reading of Poisson's ratio
- A large range of Accessories and Ultrasonic Transducers available. Standard Transducers available from 24KHz to

- 500 KHz enable the unit to test ceramics, graphite, mass concrete pores, and wood. Exponential Transducers for rough surfaces, as well as underwater transducers are also available. Finally a Pre-Amplifier is available for help with long distances or highly attenuative materials.

Specifications	
Frequency range	24 to 500 kHz, based on transducers selected
Receiver sensitivity	250 micro volts, between 30 kHz and 100 kHz
Receiver input impedance	approximately 100 k Ohms
Transit time measurement	0.1 to 6553.5 microseconds, direct digital display
Measurement accuracy	0.1 microseconds
Transmitter output	pulse 1000/500V, 2 microseconds
Transmitter pulse group rate	selectable 1, 3 or 10
Gain Selection	1, 5, 10, 25, 50, 100, 250, 500
Battery	14 Volt. 4-10 hours continuous use (Lithium Ion)
Display	320 by 240; backlit for daylight use
Storage	1800 plus readings
Software	Windows XP compatible
Temperature	0° - 50°C
Instr. Weight	6 lbs. (2.75 Kg)
Ship Weight	17 lbs. (7.7 Kg)
Dimensions	4.5" x 8.5" x 10.5" (114.3mm x 223.5mm x 267mm)