H-2979A

H-2853B

H-2854

TICO Ultrasonic System— H-2979A

You can use the TICO to determine cracks, honey-combs, voids, delaminations in concrete as well as frozen concrete and other non homogenous conditions that occur in concrete. The unit also allows you to determine modulus of elasticity and concrete strength.

The TICO uses 2 Transducers to send ultrasonic sound waves through the concrete. The unit allows you to test in 3 different modes, Direct, Semi-Direct, and Indirect. A wide range of transducers allows the user to meet the demands of almost any test site. Ultrasonic testing is often used in conjunction with the Schmidt hammer to pin point specific weak areas. All information is displayed on a large easy to read screen. Data can be saved for downloading to a PC for analysis and evaluation.

The unit comes equipped with two 54khz transducers, two 5ft (1.5m) BNC cables, calibration bar, coupling agent, carrying case and easy to follow instruction manual. Conforms to ASTM C597, BS1881-203

Pundit Plus Ultrasonic System— H-2853B
Pundit Plus, 240V— H-2853B.4F

The Pundit Plus is the new generation, pulse velocity test system that features the latest in microprocessor technology for today's increasing demands for accuracy, reliability and ease of operation. For added convenience, the new system incorporates a transducer-mounted switch for ease in recording of readings and built-in memory to store up to 100 readings.

A standard RS-232C port allows the user to download the stored information using HyperTerminal for exporting into compatible spreadsheet applications. Menu-driven options permit the user to display transit time, velocity, limits or elastic modulus in either English or Metric units. The complete kit includes the instrument in a nylon holder, AC power supply and power cord, two 54 kHz transducers, two 12 ft. (3.7m) cables, coupling agent and operating manual. Meets ASTM C597, AASHTO TP37 and BS1881-203.

V-Meter, Ultrasonic System—H-2854

The V-Meter™ is an advanced ultrasonic, pulse-velocity test system widely used for quality control and evaluation of concrete structures. It can identify non-homogeneous conditions such as voids, cracks, honeycombs and frozen concrete. The V-Meter comes with standard 54khz transducers, and its large easy-to-read display is perfect for field use. The battery will last up to 10 hrs. on a single charge, and the unit is capable of storing over 1800 readings for later processing. Conforms to ASTM C597, BS1881-203 and other international standards.

Optional Hand-held Terminal— H-2854T

Facilitates input of control parameters such as distance between transducers, density and moisture corrections, etc. It also enables calculations of P-wave, S-Wave, calculated modulus and Poissons ratio to be made automatically and includes an RS-232C port for transfer of data to a PC.

Velocity	1 to 9999 ft/s or m/s at an accuracy of ±1 ft/s or m/s.
Transit Time	1 to 9999 m/s at an accuracy of ±1 m/s.
Elastic Modulus	up to 999.9 GN/m2 at an accuracy of ±0.1 GN/m2
Resolution	0.1 us
Voltage Pulse	1 kV
Pulse Rate	3/s
Transducers	54 kHz with 12ft. (3.6m) BNC cables, two included
Display	128 x 128 pixel graphic LCD
Data Output	RS-232C interface
Temp. Range	0° to +40°C
Battery	8 Internal rechargeable NiMH batteries
Dimensions	9.8" x 6.3" x 3.9" (250 x 160 x 100 mm)
Weight	Shpg. 12 lbs. (5.4 kg)

Range	approx. 15 to 6550 µs
Resolution	0.1 µs
Voltage Pulse	1 kV
Pulse Rate	3/s
Impedance	1M
Transducers	54 kHz with 5ft. (1.5m) BNC cables, two included
Memory	Nonvolatile, up to 250 measured values
Display	128 x 128 pixel graphic LCD
Data Output	RS-232C interface
Temp. Range	-10° to +60°C
Battery	30 hours with six AA (LR 6) batteries (1.5V)
Dimensions	12.8" x 11.6" x 4.15" (325 x 295 x 105 mm)
Weight	Shpg. 12 lbs. (5.4 kg)

Frequency Range	24-500 KHz, based on transducers selected
Sensitivity	250 micro volts, between 30 KHz and 100 KHz
Input impedance	approximately 2 M OHMS
Transit Time	0.1 to 6400 microseconds, direct digital display
Accuracy	+ 0.1 microseconds
Pulse Rate	selectable 1, 3 or 10
Transmitter output	pulse 1000/500V, 2 microseconds
Display	240 x 64 pixel graphic LCD
Storage	1 K byte
Data Transfer	RS-232C w/handheld option.
Temp. Range	0° to +40°C
Battery	NI-CAD batteries, 9 hours operation.
Dimensions	7.5" x 4" x 8" 190 x 100 x 220mm
Weight	6 lbs. (2.7 kg) w/ battery

Transducers with other frequencies and longer length cables are available for special test applications, contact Humboldt for details.