

CT Wave



Physical

SIZE:

Width (2.5in./63.5mm.) Height (6.5in./165mm.) Depth (1.24in./31.5mm.) Weight: 13.5 ounces (with batteries) **DISPLAY:** Membrane switchpad with

twelve tactile keys Operating Temperature: 14°F to 140°F (-10°C to 60°C)

CASE:

Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed)

DATA OUTPUT:

Bi-directional RS232 serial port. Windows® PC interface software

DISPLAY:

1/8in. VGA grayscale display (240 pixels x 160 pixels) Viewable area 2.4in. x 1.8in. (62mm. x 45.7mm.) EL backlit (on/off/auto)



Ultrasonic Specifications

MEASUREMENT MODES: Pulse-Echo (standard) Pulse-Echo w/Gate (fine adjust) PULSER: Square wave pulser with adjustable pulse width (spike, thin, wide) RECEIVER: Manual or Auto Set gain control

with 40dB range **TIMING:** 10-bit 250 MHz digitizer Warranty 2 year limited

Power Source

Three 1.5V alkaline or 1.2V NiCad AA cells Typically operates for 150 hours on alkaline and 100 hours on NiCad (charger not included) Auto power off if idle for 5 min Battery status icon

Measuring

RANGE:

From 1in. to 48in. (2.54mm. to 122mm.) bolts Time—Nanoseconds Elongation—Change in length (inches/millimeters) Load—Force load applied (pounds kPSI or megapascals MPa) Stress—Force for unit area stress applied (inches per inch or millimeters per millimeter) **RESOLUTION:** +/- 0.00001in. (0.0001mm.) Velocity Range: 0.0492 to .3937 in/ms (1250 to 9,999 meters/sec) Fixed, Single, and Two-point zero calibration options Select bolt material types from a pre-set or custom list **UNITS:** English & Metric / Fahrenheit & Celsius

Display

A-Scan—Rectified +/- (half wave view), or RF (full waveform view) Large Digits—Display and toggle between nanoseconds, elongation, load, stress, and strain

DIGIT HEIGHT:

0.400 in. (10mm.) Limits Bar (alarm limits)— Set Hi & Lo alarm limits for displaying an acceptable tolerance range Repeatability Bar Graph—Bar graph indicates stability of measurement Data Logger (Internal) Total of 8,000 readings in multiple bolt groups Stores both waveform views, nanoseconds, elongation, load, stress and strain for each reading **MEMORY:** 16 megabit non-volatile ram

Transducer

TRANSDUCER TYPES:

Single element (1 MHz to 10 MHz & 1/8in. to 1in. diameters) Locking quick disconnect "00" LEMO connectors Standard 10 foot cable Custom transducers available for special applications Temperature probe for automatic temperature compensation

Features

SETUPS:

64 custom user defined setups. Factory setups can also be edited by the user **GATE:** Gate used to fine adjust where the detection point occurs

ALARM LIMITS:

Set Hi and Lo tolerances with audible beeper, viewable scan bar, and visual LEDs

AUTO SET:

Locates the detection signal, optimizes the gain setting, and adjusts the overall display to show the waveform and detection point automatically

FIELD CALIBRATION: Vector & linear regression

Certification

Factory calibration traceable to national standards.