

MINI-MAX SPECIFICATIONS

Physical

Weight: 13.5 ounces (with batteries). Size: 2.5W x 6.5H x 1.24D in (63.5 x 165 x 31.5 mm).

Operating Temperature: 14° to 140°F

(-10° to 60°C).

Keyboard: Membrane switch with twelve

tactile keys.

Case: Extruded aluminum body with nickel plated aluminum end caps (gasket sealed).

Environmental: Meets IP65 requirements.

Connections

USB: Direct USB-C 1.1 PC connectivity. Windows & OSX interface software.

Line Power: USB-C to PC or AC adaptor. Temperature Sensor: 5 pin Lemo 1. Transducer Connector: Lemo 00.

Memory

Log Format: Grid (Alpha Numeric). Capacity: 4GB internal SD memory.

Screen Capture: Tagged interface file (.tif)

capture for quick documentation. Custom Setups: 64 user configurations.

Power Source

Line Power: USB to PC or power outlet.

Batteries: Three AA cells.

Alkaline 35 hrs, Nicad 10 hrs, NI-MH 35 hrs. Auto power off after 5 minutes idle.

Battery status icon.

Transducers

Transducer types: Single element - 1 MHz to 10 MHz frequencies, and 1/8" to 1" diameters.

Glue-On: Available for short bolts with minimal/short elongations to eliminate transducer placement errors.

Connectors: Microdot, Lemo 00, or BNC options depending on the transducer model selected.

Custom transducers: Available for special applications.

Temperature probe: Automatic temperature compensation.

Electronics

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

Screen Refresh Rate: 30 Hz.

Timing: Precision TCXO timing with single shot 100 MHz 8 bit ultra low power digitizer.

Pulser Type: Square Wave.

Pulser Voltage: Selectable 100, 150 and

200 volts.

Pulse Width: Selectable options Spike,

Thin, and Wide. 80 to 400 ns.

Damping: 50, 75, 100, 300, 600, & 1500

Frequency Band: Broadband 1.8 - 19 MHz

(-3dB) filter.

Horizontal Linearity: +/- 0.4% FSW. **Vertical Linearity:** +/- 1% FSH. Amplifier Linearity: +/- 1 dB.

Amplitude Measurement: 0 to 100% FSH.

with 1% resolution.

Delay: 0 - 999.9 in (25,400 mm) at steel

velocity.

Measurement Gate: One gate with audible and visual alarm. Amplitude 5-95%, 1% steps.

Features

Setups: 64 custom user defined setups; factory setups can also be edited by the

Auto Set: Automates the detection, scope, and display setting process for each individual bolt.

Alarm Limits: Adjustable Hi/Low tolerances with visual LED's and audible beeper.

Field Calibration: Vector or Regression correction curve for increased accuracy using Load & Stress.

Display Views

A-Scan: Rectified +/- (half wave view), or RF (full waveform view).

Large Digits: Digital display only.

Alarm Limits Bar: Hi & Lo alarm limits for displaying an acceptable tolerance range.

Measuring

Units: English (in), Metric (mm), or Time (µs). Farenheit or Centigrade.

Velocity: 0.0492 to .5510 in/µs (1250– 13995 m/s).

Measurement Modes: Pulse-Echo (P-E).

Measurement Range: 1 in to 50 ft (25.4 mm to 15.24 M), dependent on material type and consistency.

Detection: Zero Crossing.

Resolution: +/- 0.00001 in (0.0001 mm). Calibration: Automatic, Fixed, Single or Two-Point zero calibration options.

Quanties:

Time - Nanoseconds.

Elongation - Change in length (inches/millimeters).

Load - Force load applied (pounds KIP, or megapascals MPa).

Stress - Force for unit area stress applied (inches per inch or millimeters per millime-

%Strain - Ratio of elongation to effective length.

Bolt Materials: Select types from a preset or custom list.

Repeatability Bar Graph: Bar graph indicates stability of measurement.

Certification

Factory calibration traceable to NIST & MIL-STD-45662A.

Warranty

2 year limited





