ECHOMETER PREMIER

ULTRASONIC BOLT LOAD & ELONGATION MEASUREMENT INSTRUMENT

The Boltight Echometer Premier pulse-echo ultrasonic time-of-flight (TOF) measurement device measures, displays, stores and transfers bolt load and elongation data in a new, single purpose unit. The Echometer Premier uses a rugged, sealed color touch screen for all operator Input/Output.

The screen uses proven medical touch panel hardware. The measurement system is a hybrid technique, using the best of both analog and digital signal processing techniques for fast signal acquisition and precise single shot TOF measurement.

All data is logically presented on a 4.3" color, resistive touch screen, usable with gloves. Data and digital signal traces are stored for later display and transfer. The unit has automatic temperature compensation through an included magnetic temperature probe. The novel memory system has a secure sector for all bolt data and a "public" sector for transfer via USB to computer.

The Echometer Premier is powered by proven Lithium Ion batteries or through dual charger inputs: fast charge standard external 9V supply or the waterproof micro-USB connector from any standard 5V USB device, battery pack or power supply.

Intuitive software developed specifically for bolting industry, the automatic echo detection algorithm has been developed with input from the most experienced users and electronic developers in the bolt tightening industry!

Communicate to any PC with standard USB connection.

- **Easy-to-use** touchscreen display (can be used with gloves or stylus).

- **Compatible** with MS Windows and MS Excel. No need for special PC Software.

- **IP-rated** (sealed for field use).

- **Chargeable** instrument by external charger or Micro-USB.

- **Low-cost** Ultrasonic bolt elongation and load measuring instrument.

INTUITIVE OPERATIONS

- No buttons or confusing arrows and abbreviations, programmable touch pad QWERTY alphanumeric input.

- Creation, storage, retrieval of individual projects (group of fasteners).

- Bolt types for projects (geometry, material, etc.) stored individually for repeated use/retrieval.

- Flexible bolts/readings per project; no setup limits.

- Temperature, signal parameters, scope trace and date/time stored with each reading.

WEIGHT AND DIMENSIONS

- Small, lightweight, rugged (7x7x1,75in – 3,2 lbf –179x179x45mm – 1,5 kg).

- 480x272mm - 24bit color, sunlight readable touch panel display.

FAST DIGITAL SIGNAL: LOCATION, AMPLITUDE, AND THRESHOLD DETECTION

- Real time signal tracking.

- Storage of individual signal parameters for qualitative Remove and Replace reading comparison.

DATA STORAGE

- Secure data file area – operator-controlled public file area.

- Password protected.

- No special PC software required. Once connected to the PC, the Echometer Premier runs as an external hard drive for easy file management.

- Flexible bolt data storage options, large storage.

- Store and display echo traces of every signal for every reading, date/time stored with each reading.

TRANSDUCERS

- Can be used with magnetic, non-magnetic and glue-on transducers.

- Special, modified and custom-designed transducers.

CONNECTORS

- Lemo 00: ultrasonic and 0B: temperature and communication.

- USB - Rugged, sealed USB micro-B.

DISPLAY

- 480x272 - 24bit colour, sunlight readable touch panel display.

- -20 to +70°C operating range.

- Full touch panel program operation.

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