Total Control for Bolted Joints!

The MAX II Bolt Tension Monitor

Features:
- Quantities - Elongation, Load, Stress, Strain and Time (nanoseconds).
- Sunlight readable color QVGA display (320x240 pixels).
- Measure Modes - Pulse-Echo, Echo-Echo, Echo-Echo-Verify (triple echo).
- Auto Correlation - Transducer Placement.
- Custom auto calibration feature.
- 4GB internal & up to 64GB external SD memory.
- USB 1.1 connectivity.
- Analog, serial & alarm outputs.
- PC & OSX reporting software.
- Import & export files - between Max II and MiniMax.
- Li-Ion pack & 6 AA emergency battery backup option.
- 2 year warranty.
MAX II SPECIFICATIONS

**Electronics**

**Display:** Blanview sunlight readable QVGA TFT color display (320 x 240 pixels). Viewable area 4.54 x 3.40 in (115.2 x 86.4 mm), or 5.7 in (144.78 mm) diagonal. 16 color palate, multiple color options and variable brightness.

**Screen Refresh Rate:** 60Hz.

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

**Pulser Types:** Spike, Square Wave & Tone Burst.

**Pulser Voltage:** 100 - 400v.

**Pulse Width:** Selectable step options Spike, Thin, Wide, HV Spike, HV Thin, HV Wide, TB .5MHz, TB 1MHz, TB 2MHz, TB 5MHz, TB 10 MHz. Spike 40 ns, Square Wave 80 to 400 ns, Tone Burst 50 ns to 1 microsecond.

**Gain:** 0 to 110dB with 0.2dB resolution. Manual and AGC control.

**Damping:** 50, 75, 100, 300, 600, & 1500 ohms.

**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, +/- 1 dB.

**Amplitude Measurement:** 0 to 100% FSH, with 1% resolution.

**Delay:** 0 - 999.999in (25,400mm) at steel velocity.

**Detection:** Zero Crossing.

**Resolution:** +/- 0.00001 in (0.0001 mm).

**Calibration:** Automatic, Fixed, Single or Two-Point zero calibration options.

**Quantities:**

- **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 millimeter).
- **%Strain:** Ratio of elongation to effective length.

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

**Transducers**

- **Transducer types:** Single element - 1 MHz to 10 MHz frequencies, and 1/8" to 1" diameters. Magnetic & Non Magnetic options available.
- **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.

**Certification**

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

**Warranty**

2 year limited

**MADE IN THE USA**

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