TLM

Torque Load Management

Please contact sales@appliedtorque.co.uk for further information

TLM

The TorcUP model TLM-1, Torque Load Management Monitor, defines the state of the art in measurement of the actual elongation produced by tightening a threaded fastener. The TLM can measure the elongation accurately in fasteners of virtually any material from 1/2" to 4' in length. The measurement is achieved by determining the change in the transit time of an ultrasonic shockwave along the length of the fastener as the fastener is tightened by any method. The on-board microcomputer automatically interprets this time measurement to display the time (nanoseconds), elongation, load, stress, or strain from stretching a fastener. Through the use of high speed digital signal processing and automated diagnostics, the TLM minimizes the requirement for extensive operator training. With built in data recording and reporting through an RS232 interface, the TLM offers an easy and reliable solution to the most difficult bolting problem.

Features:

Setups: 64 custom user defined setups

Gate: Gate used to fine adjust where the detection point occurs

Alarm Limits: Set high and low tolerances with audible beeper, viewable scan bar and visual LEDs

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

Field Calibration: Vector and linear regression, certification, factory calibration traceable to national standards

Warranty: 13 Month Limited

Technical Specifications:

Size:

Width - 2.5 "/63.5 mm

Height - 6.5"/165 mm

Depth - 1.24"/31.5 mm

Weight 13.5 oz. (with batteries)

Power Source:

Three 1.5V alkaline or 1.2V NiCad AA cells

Measuring:

Range - 1" to 48" (25.4 mm to 122 cm)

Time - Nanoseconds

Elongation - change in length (inches/ millimeters)

Load - force load applied (pounds kIP or kN Kilonewtons)

Stress - Force for unit area stress applied (pounds kPSI or megapascals MPa)

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