

# Ultrasonic Testing. The Easy Way.

## PORTABLE ULTRASONIC TESTER MODEL:

TM-8812 (Small & reliable, easy to use and calibrate, probe made to fit 3" bore)  
Standard Delivery:  
- Unit, Carry case, ultrasonic gel, probe, calibration block.



TM-8812

Measuring range: 1.2-225mm.

Materials: Steel, Cast Iron, Aluminium, Copper, Brass, Zinc, Quartz glass, Polyethylene, PVC, Grey cast Iron, & Many more...

Sound Velocity: 500-9000m/s

Accuracy: +/- (0.5%n+0.1)

Resolution: 0.1mm

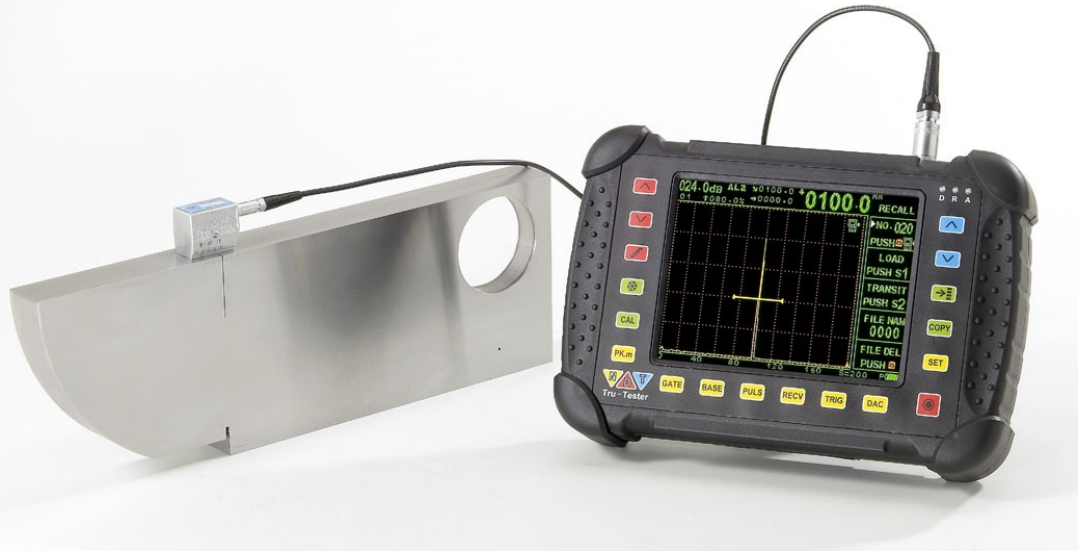
Power: 4 x AAA Batteries

Weight: 164g + Batteries

## PORTABLE ULTRASONIC FLAW & THICKNESS TESTER

Tru-Test

- High resolution
- Large display
- DAC Curve w/ DAC alarm
- +6db DAC setting (extend DAC sound path to 200mm full screen) Positive, Negative & min depth alarms.
- Gate A & B alarm settings
- Echo-Echo through coating thickness measurement.
- Time B scan and encoder B scan available
- Single Point probe auto zero calibration (incl. single contact and angle beam probe)
- Displays sound path leg and its value, surface distance and depth to flaw for angle beam inspections.



The high refresh rate (60HZ) of the bright and high-contrast TFT screen is reminiscent of the successful analog tubes.

You can read your measurement readings quickly and clearly. If a measurement is made when you are at some distance from your instrument, simply display the reading in large digits.

The pulse repetition frequency can be reduced. By doing this, phantom echoes can be reliably avoided which could occur when testing larger test objects.

The instrument can store data sets, including all instrument parameters, test results and A-Scans and can be recalled as well as printed at any time.

You soon feel at ease, because you operate them in accordance with your proven standards for digital instruments.

SUPPLIERS OF ALL NDT  
AND  
INSPECTION EQUIPMENT –  
SALES & REPAIRS –  
CALIBRATION & LEASING

Contact us for more information:

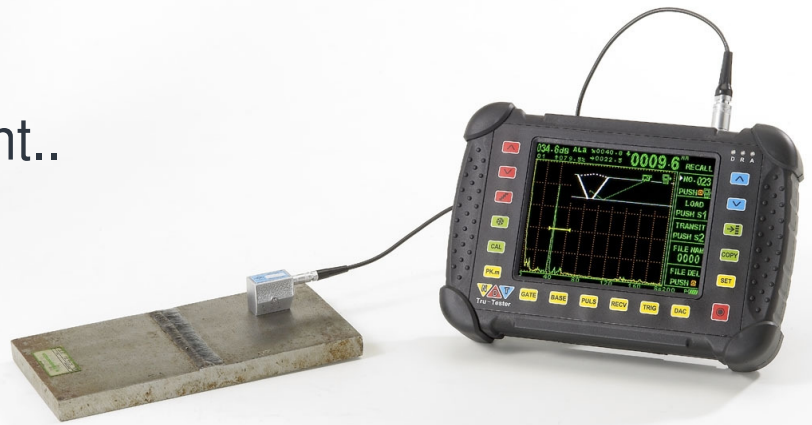
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## Tru-Test cont..



### SPECIFICATIONS

**Calibration range:** From 25 to 5000 mm (steel long).

**Sound velocity:** 2 fixed values (3230m/s, 5920m/s) and adjustable in the range 1000 to 9999m/s in steps of 1m/s.

**Probe delay:** 0 to 365  $\mu$ s

**Gain:** 100dB, adjustable in steps of 0.1/2/6/12/20 dB

**Fine Gain:** 0.1 dB

**Frequency range:** 0.5-4 MHz narrow band, 5-15 MHz wide band

**Pulse repetition frequency:**

10-1000Hz, depending on the set calibration range and the probe delay for adjustable

**Test methods:** Pulse echo mode and Thru mode

**Pulser Voltage:** 200 / 400 V negative spike

**Damping:** 100 / 200  $\Omega$

**Echo presentation:** Full wave, RF

**Suppression:** Linear, 0 to 90% screen height adjustable in steps of 1%, status indication on the display

**DAC:** Recording of up to 8 reference echoes, 40dB dynamic range, display of the DAC curve

3 or 4 DAC curve can be setting

**Data storage:** 1000 A-scan Trace Data sets in the FLASH memory, with additional alphanumeric identification and directory function.

**Units of measure:** mm or inch

**Direct documentation:** Hardcopy (contents of display), active measurement reading, test report or thickness report, via the RS-232 interface to computer.

**Interface:** RS-232 C (bidirectional) or USB adaptor for PC computer.

**Analog output:** Proportional voltage for amplitude and sound path of the echo in the gate; TTL signal for gate alarm

**Probe connector:** Two LEMO 1 connectors ( BNC connector available )

**Power supply:** Removable 8800mAh/7.2V Li-ion Battery or mains supply via an external mains power/charger unit JBD15-A2S

**Operational period:** Up to 5 hours with Battery ( select LCD low bright )

**Battery charge indication:** On the display

**Operating temperature:** -5° C to +55° C

**Storage temperature:** -40° C to +75° C (without batteries)

**Display size:** Screen: 103mm×86mm (W×H)

**Dimensions:** 140mm×220mm×42mm (H×W×T)

**Weight:** 2.0 Kg with battery pack

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