

THE THOR:



High Performance Thickness Gauge

- ▶ is a full function A-Scan thickness gauge with a wide variety of modes and features for extra versatility.
- ▶ The tone-burst style pulser provides THOR with enough strength for the most difficult high penetration applications.
- ▶ The A-Scan display options and dual gates enable THOR to be optimized for multi-mode thru paint requirements.
- ▶ The full feature lockout disables the A-Scan features and allows THOR to be used as a simple digital thickness gauge.

- ▶ THOR has 25 manufacturer defined setups that can be edited by the user. This feature allows complete control to create custom setups for specific applications.
- ▶ THOR is equipped with an alphanumeric data logger for reporting purposes. You can store 1000 pages of data each consisting of a main cell reading, 16 sub readings, a waveform display, and 2 lines of comments.
- ▶ THOR also comes complete with our DakView2 Windows® PC software for transferring data to and from a PC.
- ▶ THOR comes as a complete kit, ready to use, and is backed by a 2 year limited warranty.

SPECIFICATIONS

Physical

Size:

Width (8.5in/216 mm)
Height (6.5 in/165 mm)
Depth (2.0 in/51 mm)

Weight:

2lbs. 10 ounces (1.2 Kg)
(with batteries).

Keyboard:

Membrane switch pad with
tactile keys.

Operating Temperature:

-4° to 122°F (-20° to 50°C)

Case:

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

Data Output:

RS232 port out Windows®
interface software.

Display:

Backlit LCD—3.5"W x 2.0"H

Ultrasonic Specifications

Measurement Modes:

Pulse-Echo (flaws, pits)
Echo-Echo (thru paint,
precision delay line)

Pulser:

Tone-burst (push-pull).
Selectable 1, 2, or 4 pulses.
Selectable frequencies (MHz):
0.5, 1, 2.25, 5, Hi Freq.

Receiver:

Low noise pre-amplifier.
Adjustable gain control.

Timing:

160 MHz 10 ppm TCXO
controlled digitizer.

Memory:

8 megabit non-volatile ram.



Power Source

Four 1.5V alkaline or
1.2V NiCad C cells
100—240 VAC input 12VDC
power supply.

Typically operates for 30 hours
on alkaline and 15 hours on
NiCad (charger not included.)

Battery icons indicate
remaining life.

Measuring

Range:

Measures from 0.010 to 480
inches (0.63 to 12 Meters) in
steel. Switch to select english
or metric units.

Resolution:**Standard Mode—**

.001 inches (0.01 millimeters)

High Resolution mode—

.0001 inches (0.001 mm)

Velocity Range:

.0500 to .3937 in/ms
1270 to 10,000 meters/sec

Selectable pulse repetition rate
allows for high speed scanning
or low power operation.

Single and Two point calibra-
tion capability.

Display

Display Views:

Rectified (flaw view)
RF (full waveform view)
Digital thickness readout

Multi-function 6 digit graphic
LCD, backlit for use in poor
light conditions.

Measurements displayed in
inches, inches/microsecond.

Millimeters and meters/second.

Bar graph indicates stability of
reading.

Certification

Factory calibration traceable to
national standards.

Data Logger (Internal)

1000 pages of memory (alpha
numeric storage)—1 main cell
cell reading, 1 waveform, 2
comment lines, and 16 sub
readings per page.

OBSTRUCT for indicating
inaccessible locations.

Transducer

Transducer Types

Dual Element (1 to 10 MHz)
Single Element Contact
(500 KHz to 10 MHz)
Single Element Delay Line
(5 to 22 MHz)

Locking quick disconnect
"00" LEMO connectors.

Standard 4 foot cable.

Custom transducers and
lengths cables available for
special applications.

Features:

Setups: 25 manufacturer
presets that can be edited by
the user.

Gates: 2 fully functional gates
with adjustable thresholds.

Windows® PC interface
software: Bi-directional trans-
fers of grid data, waveforms,
and setups.

Full Feature Lockout:

Password locks or enables
some of the advanced features.
Locked: Use THOR as a digital
thickness gauge. Unlocked:
THOR is a fully functional
A-Scan scope.

Warranty

2 year limited