



Simplifying NDT

# MODSONIC

(AN ISO 9001 :2000 COMPANY)

# ULTRASONIC THICKNESS GAUGES

(MICROCONTROLLER BASED WITH MEMORY)

## EDISON-SERIES

- Memory of 2000 Readings<sup>★</sup>
- Computer Connectivity<sup>★</sup>
- 0.01 mm (10 microns) Resolution<sup>★★</sup>
- One Step Calibration
- Operates on Two AA Batteries
- Sealed Touch Key Pad
- Built-in Calibration Block
- EL back-light for indoor / dark areas(optional)

★ Available in EDISON-1M

★★ Available in EDISON-1P

● **BEST VALUE FOR MONEY.**



## Technical Specification

### EDISON-1 AND EDISON-1M

Applicable Materials	:	All homogeneous materials which allow transmission of Ultrasonic energy through it like most of metals, hard plastics, glass, ceramics etc.
Measuring Range	:	1mm to 300mm (Specified range depends on test material, transducer, surface and temperature.)
Probe	:	Dual crystal (Transmitter Receiver) type.
Key Pad	:	Sealed tactile type.
Velocity	:	1000 m/s to 9999 m/s.
Display	:	LCD type. It displays Thickness, Velocity, Battery check, Coupling check, and stored readings with IDs.
Resolution	:	0.1 mm(0.01mm in EDISON-1P)
Accuracy	:	$\pm 0.1$ mm (up to 60mm) {with standard $\pm 0.5\%$ (above 60 mm) probe DT 201}
V- path Correction	:	Built-in for better accuracy.
Calibration	:	One step calibration.(for steel).
Battery	:	2 Penlite Dry Cells (AA) or NiCd.
Operating time	:	18 to 20 hours.(with alkaline batteries).
Low Battery	:	Indication by Blinking of LCD.
Auto Power off	:	3 minutes after switching on/ last reading.
Size mm	:	125(H) x 65(W) x 30(D).
Weight	:	225 Grams (With batteries).

### EDISON-1M

Memory	:	2000 readings with 4 digits ID.
RS-232 Port	:	Available for connectivity to PC / Printer.
Unit	:	Imperial (Inches) or Metric (mm) selection available

### PROBES

PROBES	Frequency (MHz.) & Crystal dia (mm)	TEST RANGE (IN STEEL)		ACCURACY	ALLOWABLE SURFACE TEMPERATURE	TYPICAL APPLICATION
		FLAT SURFACE (mm)	CYLINDRICAL SURFACE (mm)			
DT 201	5/10	2 - 200	2-200mm with OD 45mm And more	$\pm 0.1$ mm upto 60 mm, $\pm 0.5\%$ above 60mm	0 to 70 Deg. C	General purpose For Flat surface and Bigger dia.
DT 212	10/5	1 - 25	2-25 mm with OD 25mm and more	$\pm 0.1$ mm	0 to 70 Deg. C	For lower dia. Tubes and thin objects.
DT 203	2/20	5 - 300	5-300 with OD 100 mm and more	$\pm 0.3$ mm up to 50 mm, $\pm 1\%$ above 50 mm	0 to 70 Deg. C	For castings and Other coarse-grain material.
DT 201 (H)	5/10	4 - 50	5-10 with OD 100 mm And more	$\pm 0.1$ mm	0 to 150 Deg.C	For elevated surface temperature

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**Manufactured and Marketed by:**



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