

# Non Destructive Testing & Material Evaluation

## Portable Ultrasonic Flaw Detectors

### SPECIAL FEATURES FOR MODEL 4400 MV

- \* Instantaneous CRT display, sharp analog signals with less distortion.
- \* In-built software for various contours.
- \* Measurement of Thickness, Velocity and Transit time.
- \* Storage of calibration and measured data.
- \* Provision for memory data transfer to PC.
- \* Additional Digital readout on LCD display.

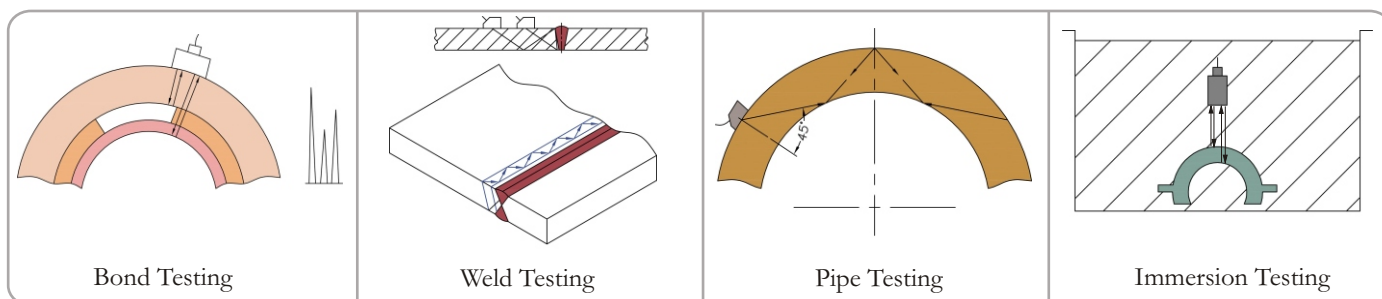


### OPTIONAL FEATURES FOR MODEL 4400 MV

- \* Velocity monitoring.
- \* Multiplexing.

### MODEL 4400AV

- \* Light weight.
- \* Compact / Portable.
- \* User friendly.
- \* Wide band Amplifier.
- \* Meets international standards.



### ULTRASONIC TESTING

Among the Non-Destructive Testing methods for Flaw Detection, Ultrasonic Testing is a fast & reliable method. With this one can save on material, labour, machining cost and time by early detection of defects at raw material stage. It also helps to ensure quality and safety. Various materials like metals, glass, plastics, ceramics, etc in cast, rolled, forged, welded forms can be tested for defects like cracks, blow holes, porosity, inclusions etc.

### SPECIAL SYSTEMS OFFERED FOR

- \* Nodularity Monitoring/Measuring.
- \* Elastic Constant Measurement.
- \* Single Channel Multiplexing online testing.
- \* Multi-channel on line testing.
- \* Velocity measurement in gases i.e velocity based gas analysis.

TECHNICAL SPECIFICATIONS	
Frequency	0.5 - 12MHz (0.5 - 25.00MHz)*
Sensitivity	140 +/- 3dB.
Gain Control	103dB in min 0.25 dB Steps. (4400MV) 2 dB(4400AV)
Horizontal Linearity	±1% of Test Range
Vertical Linearity	±1% of FSH
Accuracy of Calibration Gain	±1 db
Test Range	10mm to 10m in Steel.
CRT Screen	70 x 55mm (100 x 80mm)*
Delay	0 - 500mm in steel (upto 4 meter)*
Suppression	0 - 50% of screen height.
PRF	125Hz - 2KHz coupled with test range.
Voltage Supply	7.2V DC (Ni-cd Batteries)(Mains 230V)*
Battery Life	3 - 4 Hours. (4400MV), 5-6 Hours (4400AV)
Acceptable Temperature	0° - 50° C
Test Method	Pulse echo / through transmission.
Operating Mode	Single / Double Probe, T/R Mode.
Dimensions and	4400 AV @ 380 x 280 x 180mm 6Kg.
Weight (Incl. Batteries)	4400 MV @ 380 x 280 x 230mm 7.5Kg.
Pulse Energy Selection	High energy & High penetration.
<b>For 4400 MV only</b>	
LCD Display	4 x 20 Alfa Numeric.
Memory	Calibration 10 Sets, Measured 100 Sets.
Velocity Adjustment	0 - 9999 m/s.

\*Optional (on demand - chargeable)

#### ACCESSORIES FOR ULTRASONIC TESTING

- \* Transducers in various sizes, types & in frequency range 25 KHz – 25 MHz.
- \* Transducers for high temperature application.
- \* 0° shear wave transducers.
- \* Cables & Adaptors with various connectors.
- \* Search tubes & manipulators for immersion scanning.
- \* Reference blocks conforming to various standards.

#### OTHER NDT EQUIPMENTS

- \* Ultrasonic Thickness Gauges.
- \* Online Thickness Monitoring / Measuring Systems.
- \* Ultrasonic Pulse Velocity Meter for Concrete.

NOTE: Technical specifications are subject to change without prior notice, due to continuous upgradation.

## CONTACTS

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