

MODSONIC

(AN ISO - 9001 : 2008 COMPANY)

ULTRASONIC FLAW DETECTOR

(For Indian Railways)

Einstein - II(R)

- Colour LCD/TFT display for better visibility
- Memory of 150 trace patterns with labeling facility and 50 calibration set-ups
- Automatic Trig. Functions for angle beam testing
- Freezing of trace pattern feature available
- Compact and light weight (2.3Kg)
- Both options of direct printing & PC connectivity

RDSO Approved (Specification No.M&C/NDT/125/2004/Rev.1)



TECHNICAL SPECIFICATION

Test Range	:	10 mm to 5 meter (in steel) adjustable in 1mm .
Velocity	:	1000 m/s to 9999 m/s adjustable in 1m/s .
Delay	:	Up to 3 meter adjustable in 0.5mm .
Gain	:	80 dB operable gain in step of 0.5, 1, 2, 6, 12 or 20 dB step.
Rejection	:	0 to 100% FSH with LED indicator.
Rectification	:	Fullwave rectified with filtering.
Frequency	:	1 MHz to 6 MHz.
Test Modes	:	Pulse echo and transmit/receive.
Connectors	:	BNC .
Monitor	:	Dual gate, adjustable in 1% of Screen width with Positive/Negative logic, Gate Expand modes.
Gate Expand	:	Expands Range to width of the gate.
A-Scan memory	:	150 Trace Patterns can be stored, recalled, print or transferred to PC via RS-232 serial port.
Calibration Set-up	:	50 different calibration set-ups can be Stored and Recalled.
Labeling	:	Detail of Operator's name, Railway / Workshop, Type of Axle/No. and Defect location can be keyed in by the operator(each field of 20 characters).
Software	:	EinSoft Interface software for transferring A-Scan from Einstein-II(R) to PC is supplied.
Printer Attachment	:	Any PC Printer with serial port can be attached for instant print-out of Trace Pattern(A-Scan with Set-up data).
Display	:	119x89 mm (320x240 pixel) Colour LCD/TFT display for better visibility with option of eleven Different colour sets .
Full Screen	:	By pressing Zoom key A-Scan can be displayed in Full Screen area.
Reference A-Scan	:	Reference A-Scan pattern of standard test object can saved and recalled in the background for easy comparison during testing.
DAC	:	DAC curve can be Digitally plotted on screen. DAC curve can be set as flaw monitor gate.
Digital Readout And Trig. Function	:	Thickness/Depth can be displayed in digital readout when using a normal probe and Beam path, Surface Distance and Depth are directly displayed when angle probe is in use.
Update Rate	:	50Hz.
Power	:	Lithium-Ion Battery pack 14.4VDC,4AH, gives 8 hours continuous operation from fully charged battery. Full charging is done within 4 ½ hours.
Charger	:	Input Voltage 100 to 240 VAC. Charge status indicator is provided.
Temperature	:	0 to 55° C.
Size	:	154 x 255 x 68 mm (HxWxD).
Weight	:	2.3 Kgs. with Battery.

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Manufactured and Marketed by:



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