



Simplifying NDT

MODSONIC

(AN ISO 9001 : 2008 COMPANY)

Ultrasonic Rail Weld Tester

Einstein - II(AT)

- ★ High brightness colour TFT display
- ★ Memory of 200 A-scan patterns and 50 calibration set-ups
- ★ Special memory set-ups for Rail weld test
- ★ Special Test Rig for Tandem Testing Technique
- ★ **Direct digital display of depth and distance of flaws**
- ★ Compact and light weight(2.3Kg)

RDSO Approved for Specification No.M&C/NDT/129/2005/Rev.1



Test AT welded rail joint in less than 10 minutes.....

TECHNICAL SPECIFICATION

Test Range	:	10 mm to 5 meter (in steel) adjustable in 1mm .
Velocity	:	1000 m/s to 9999 m/s adjustable in 1 m/s .
Delay	:	Up to 3 meter adjustable in 0.5mm or 5mm step.
Gain	:	80 dB calibrated gain adjustable in 0.5,1,2,6,12 or 20 dB step.
Rejection	:	0 to 100% FSH with LED indicator.
Rectification	:	Fullwave rectified with filtering.
Frequency	:	0.5 MHz to 10 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	:	200 Trace Patterns can be stored, recalled, print or transferred to PC via RS-232 serial port.
Calibration Set-up	:	Special memory set-up allotted for Rail weld testing for easy set-up recall and testing. Total 50 calibration set-ups can be Stored and Recalled.
Tandem Technique	:	Special Test-Rig for tandem technique is provided for the Rail weld joint examination.
Probe	:	Complete set of probes are provided for the Rail weld examination.
Software	:	EinSoft Interface software for transferring A-Scan from Einstein-II(AT) 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	:	High brightness colour TFT LCD display. Display area 119x89 mm (320x240 pixel). Eleven different colour scheme options.
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.
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.

(Modification rights reserved, Color scheme may be change)

Manufactured and Marketed by:



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