



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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