

Digital Ultrasonic Double Rail Tester

RailScan-200W

- ★ 14 channels with multicolor A-Scan for quick identification of the channels.
- ★ Large 7 inch (152 x 91 mm) LCD Display with 800x480 pixels for better image quality.
- ★ In built bi-directional encoder position display.
- ★ 300 A-Scan built-in memory and virtually unlimited memory using USB Pen drive.
- ★ User friendly operation and direct keys for channel selection.

RDSO Approved (Specification No.M&C/NDT/130/2007,Rev.-1 Aug 2014)



ULTRASONIC FLAW DETECTOR

| | |
|---------------------------------|---|
| Test Range | : 10mm to 1000mm (@5920 M/sec Steel Velocity equivalent) continuously variable. It can be adjusted with hot key for coarse range step. Horizontal linearity $\pm 1\%$. |
| Velocity | : 1000m/s to 9999m/s. continuous adjustment. It can be adjusted using hot key in 7 preset values. |
| Delay | : 0-1000mm Continuous variable. It can be adjusted using hot key in coarse delay step. |
| Gain | : 0-80 db with 0.1,0.5,1,2,6,12 dB step selection. Vertical Linearity: $\pm 5\%$ |
| Rejection | : Linear type (0-99%) of full screen height, 1% step. |
| Rectification | : Full wave rectified A-Scan. |
| Frequency | : 0.2 to 20 MHz |
| No of channels | : 16 channels with separate A-Scan traces, Any or all can be selected. |
| Test Modes | : Pulse echo or transmit/receive. |
| Transmitter | : Negative Square wave type. |
| Freeze/Peak Freeze | : Current display Freeze and Peak freeze to create echo dynamic pattern. |
| Connector | : BNC type connectors for all channels. |
| Monitor | : Dual gate for each channel adjustable in 1% screen width with Positive/Negative logic, Gate Expand modes. |
| Gate Expand | : Expands Range to width of the gate. |
| A-Scan memory (built-in) | : 200 Multicolored A-Scan with calibration parameters with measured value. Using external USB pen drive virtually unlimited A-scan and Calibration set-ups can be stored. |
| Calibration Set-up | : 100 calibration parameters set-ups. |
| Software | : Suitable PC software provided to review/ print report of the stored A-scan files. |
| Display | : TFT Color with LED backlight 152mm x 91 mm Viewing area, 800 x 480 pixels. All channels have separate base line with color selectable by user. |
| A-Scan Display | : Envelop or filled A-scan Pattern. |
| DAC | : Separate Dynamic DAC curve for each channel with additional -6 and -14 dB. DAC curve can be set as flaw monitor gate. Using 2 to 10 points DAC curve can be plotted. |
| Measurement | : Echo amplitude, Sound path, Echo to Echo distance. When angle probe is used then using trigonometric functions it calculates and displays Surface and Depth distance of defect. |
| Measuring Unit | : Millimeters. |
| PRF | : Maximum 8000 Hz which varies in step of 50 Hz as per parameter set value due to Auto limiting. |
| Update Rate | : 50Hz. |
| Power Source | : Operates on Built in Li-Ion rechargeable battery or on Mains using supplied charger. Operation time is 8 hours with fully charged battery. |
| Charger | : Input Voltage 100 to 240 VAC. Charge status indicator is provided. |
| Battery charge status | : Battery charge status by suitable LED indication on charger. |
| Battery Status | : Battery status indicator with auto low battery shut down to protect battery. |
| Encoder | : Positional encoder interface to indicate travel distance/position of probe. |
| Keyboard | : User friendly with direct access to frequently used functions. |
| Operating Temperature | : 0 to 55° C. (For operation) |
| Dimensions | : 247mm x 151mm x 70mm |
| Weight | : Approx 2 Kgs. |

(Please refer to the attached sheet for brief technical specification of the trolley)

Manufactured and Marketed by



MODSONIC INSTRUMENTS MFG. CO.(P) LTD.

Plot No.33,Phase III,GIDC Industrial Estate,Naroda,Ahmedabad 382330 INDIA
Tel: +91 (079) 2281 1217,2281 3131 Fax : +91(079) 2282 0012

TROLLEY

Probe Arrangement : Arrangement of mounting total 14 probes for checking Gauge Face Forward/Reverse, Non Gauge For/Rev and Central For/Rev and 0deg TR Probe.

Probe Lifting mechanism : To protect probe during transport.

Probe shifting and auto guide roller : To follow edge of test rail

Bi-Directional encoder : To display/record the distance of the defect in report.

Separate water/couplant tank : For both rail with flow control for each probe

Water tank capacity : Approx 15 liters one for each rail.

Size : 190x105x50 CM (HxWxL).

Weight : 64KG With Ultrasonic equipment

(Modification rights reserved, Color scheme may be change)

Manufactured and Marketed by



MODSONIC INSTRUMENTS MFG. CO.(P) LTD.

Plot No.33,Phase III,GIDC Industrial Estate,Naroda,Ahmedabad 382330 INDIA

Tel: +91 (079) 2281 1217,2281 3131 Fax : +91(079) 2282 0012

Email : modsonic@modsonic.com , Web site : www.modsonic.com

MKT/043/00