MODSONIC®
(SINCE 1987)
Simplifying NDT

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)

Technical Specification

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 ± 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:± 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

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MKT/043/00

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

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