

RAILSCAN 125

ULTRASONIC FLAW DETECTOR



TRANSFLECTIVE COLOUR TFT DISPLAY

RAIL BOTTOM DEPTH MEASUREMENT

VIDEO OUTPUT ENABLING HEAD UP DISPLAY

100 A-SCAN MEMORIES & 2000 THICKNESS READINGS FOR TUNNEL SURVEYS

KEYLOCK FACILITY TO PREVENT ACCIDENTAL ALTERATION OF CONTROLS



NETWORK RAIL APPROVED

2.5 KG INCLUDING BATTERY

NEW XENOY CASE SEALED TO INHIBIT WATER INGRESS

UP TO 11 HR BATTERY LIFE

HELP FUNCTIONS

OPTIONAL SDMS WINDOWS SOFTWARE

2 YEAR WARRANTY



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Test Range:	5mm to 10000mm (0.2-400in) at steel velocity. Variable in 1,2,5 sequence, or continuously in 1mm (0.05in) increments.	Units:	Metric (mm) or inches (in). Select from menu
Velocity:	1000 to 999.999m/s continuously variable.	Gate Monitor:	Two gates for echo monitoring and thickness measurement. Start and width adjustable over full range of unit. Bar presentation. 0.6 second delay on Gate 2 triggering. Gate 1 fixed for positive triggering & Gate 2 is fixed for negative triggering
Probe Zero:	0 to 999.999 μ s, continuously variable.	A-Scan Memory:	Maximum of 100 waveforms stored with complete panel settings. Waveforms may be recalled on display, printed or transferred via RS232 serial interface.
Delay:	Calibrated delay from 0mm to 5000mm in 0.1mm steps at steel velocity (0-200in. in 0.05in steps).	Panel Memory	20 stores for retaining calibrations
Gain:	0 to 110dB. Adjustable in 0.5, 2, 6, 14 and 20dB steps. Direct access to gain control at all times.	Thickness Logging:	Storage for 2000 thickness readings configured into Block/Location/Number. Calibration settings stored with each Block. Maximum number of Blocks is 14. Unlimited Location/Number values, maximum combination of 2000 readings. Readings may be reviewed, edited and printed as required.
Test Modes:	Pulse echo and transmit/receive.	Special functions:	Display Freeze for capturing current A-Scan image. Peak Memory for echodynamic pattern determination in accordance with BS3923 Help Key For instant operator guidance on using the Railscan 125.
Pulser:	Fixed square wave pulser 100ns duration at 5MHz and 250ns at 2.5Mhz	Keylock Facility:	Prevents accidental alteration of parameters after setting
P.R.F.:	Fixed at 1000 Hz	Outputs:	Full bi-directional serial interface to transfer parameters, thickness readings and waveform memories. Composite video, full PAL or NTSC compatibility. Alarm output for external bleeper on a AUX connector
Video Update Rate:	60Hz (NTSC Mode); 50Hz (PAL Mode).	Power	Lithium Ion battery pack 14.4V, 5.0 Ampere-hours, gives 8 hours duration from a fully charged pack. Indication of low battery status. Recharge time is two hours.
Rectification:	Full wave	Charger:	Universal mains input 90 to 260 volts A.C.
Frequency Range:	Two narrow bands centered at 2.5 MHz & 5 MHz	Transducer Sockets:	BNC or LEMO (factory option)
System Linearity:	Vertical \pm 1% Full Screen Height (FSH) Amplifier Accuracy \pm 0.1dB. Horizontal \pm 0.4% Full Screen Width (FSW).	Environmental	To IP67
Reject:	None	Temperature:	Operating -10 to +55°C. 14 to 131° F -20 to +70° C. -4 to 158° F (survivable) Storage -40 to +75° C. -40 to = 167° F
Display:	Colour TFT: Display area 103 x 77 mm (4.05 x 3.03 in) 320 x 240 pixels. A-Scan area 255 x 200 pixels, 8 colour options and variable brightness.	Size:	255 x 145 x 145mm (10.0 x 5.7 x 5.7in)
Measurement Modes:		Weight:	2.5 kg with Li-ION Cells.
Mode 1	Signal monitor	Supervisor Mode	SDMS controls panel memories and A-Scan memories
Mode 2	Depth and amplitude of first signal in gate.	SDMS	Software package which allows the transfer of memory storage to Windows based software packages for report writing. Windows 95, 98 and NT operating systems.
Mode 3	Echo-to echo distance measurement.		
Mode 4	Trigonometric display of beam path, surface distance and depth of indication.		
Mode 5	T-Min mode for holding minimum thickness reading. Resolution to 0.01mm (0.001in) for distance measurement, or 1% FSH for amplitude measurement. Large display of measurement at top of A-Scan display. Measurement mode selectable between peak and flank.		
Railtrack Approval Certificate	Certificate Number: RT/18/0430		

Sonatest is the leading European manufacturer of Ultrasonic Flaw Detectors, Thickness Gauges and Transducers. The Railscan 125 is covered by a comprehensive 2 year warranty and is manufactured under a quality system approved by British Standards Institute to ISO 9002.

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