

SITESCAN 240

SPECIFICATION

Test Range:	5mm to 10000mm (0.2-400in) at steel velocity. Variable in 1,2,5 sequence, or continuously in 1mm (0.05in) increments. Also from 1 to 5000 (μ s).	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.
Velocity:	1000 to 9999m/s continuously variable.	DAC:	DAC curves may be entered and digitally drawn on the display. Reference, -6dB, -12 dB, -14dB curves may be selected. DAC curve selected acts as gate for alarm outputs and height measurement in DAC +dB. DAC parameters stored with Panel Memory. Curves available for ASME and JIS Codes.
Probe Zero:	0 to 999.999 μ s, continuously variable.	AWS	Built in Software for evaluation of defect indications in accordance with AWS standards
Delay:	Calibrated delay from 0-10000mm in 0.05mm steps at steel velocity (0-200in. in 0.05in steps).	TCG:	Time Corrected Gain, also known as Swept Gain. 40dB dynamic range greater than 30dB per Microsecond and up to 10 points may be used, setting all signals initially to 80% Full Screen Height.
Gain:	0 to 110dB. Adjustable in 0.5, 2, 6, 14 and 20dB steps. Direct access to gain control at all times.	Auto-Cal:	Provides Automatic calibration from two echoes.
Test Modes:	Pulse echo and transmit/receive.	Video:	Composite video selectable between NTSC and PAL.
Pulsers:	Square wave pulser, 185V peak amplitude Pulse width 40-250ns linked to frequency selection -	Clock:	Sets time and date.
P.R.F.:	Selectable 35,63,150,250,500 and 1000 Hz	Reference Waveform:	This menu displays a waveform from one of the A-Log stores as a reference or fingerprint display in a colour different from the active display highlighting differences from the reference.
Video Update Rate:	60Hz (NTSC Mode); 50Hz (PAL Mode).	Notes:	Alphanumeric labelling for panel and A-Log allows the user to enter Notes for storage with A-scans.
Rectification:	Full wave, positive or negative halfwave and unrectified rf.	X-Offset:	Allows the surface distance to be calculated from the front of the probe with X-offset being the distance from the index point to the front of the probe.
Frequency Range:	4 Narrow Bands centred at 1MHz, 2MHz, 5MHz, and 10 MHz . Broad Band at 1.5 to 15 MHz (-6dB).	Display Freeze:	Freezes current A-scan image.
System Linearity:	Vertical \pm 1% Full Screen Height (FSH) Amplifier Accuracy \pm 0.1dB. Horizontal \pm 0.4% Full Screen Width (FSW).	Peak Memory:	For echodynamic pattern determination.
Reject:	50% suppressive reject. LED warning light when selected.	Keylock	Prevents accidental alteration of parameters
Units:	Metric (mm), inch (in), or Time (μ s).	Help Key:	For instant operator guidance on using the SITESCAN 240
Display:	A colour display, active area being 320 x 234 pixels, 102.72 mm wide by 74.76 mm high. The graticule areas is 250 + 5 pixels by 200 pixels, 80.25 + 1.6 by 63.8 mm. The LCD , the active area is 360 x 240 pixels, 96.0 mm wide by 72.00 mm. The graticule area is 250+5 pixels by 200 pixels, 75.0 + 1.5 by 60 mm.	Waveform Smoothing:	Gives a smooth signal envelope similar to the video filtering in analogue equipment.
Gate Monitor:	Two fully independent gates for echo monitoring and thickness measurement. Start and width adjustable over full range of unit, amplitude variable from 0 to 100% FSH. Bar presentation. Positive or negative triggering for each gate	Outputs:	Full bi-directional serial interface to transfer parameters, thickness readings and waveform memories. Composite video, full PAL or NTSC compatibility. Analogue proportional outputs programmable to distance or amplitude of signal in the gate.
Measurement Modes:		Power	Lithium Ion battery pack 14.4V, 5.0 Ampere-hours, gives 8 hours duration from a fully charged pack. (up to 15 hours with LCD) Indication of low battery status. Recharge time 3-4 hours
Mode 1	Signal monitor	Charger:	Mains input of 110 or 230 volts ac.
Mode 2	Depth and amplitude of first signal in gate.	Transducer Sockets:	BNC or LEMO (factory option)
Mode 3	Echo-to echo distance measurement. (single gate)	Environmental	To IP67
Mode 4	Trigonometric display of beam path, surface distance and depth of indication.	Temperature:	Operating -10 to +55°C. 14 to 131° F LCD Version: 0 to +50°C. 32 to 122° F -20 to +70° C. -4 to 158° F (survivable)
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	Size:	Storage -40 to +75° C. -40 to = 167° F 255 x 145 x 145mm (10.0 x 5.7 x 5.7in)
Gate Expansion:	Expands range to width of Gate 1.	Weight:	2.5 kg (5.5 lbs.) with Li-ION Cells.
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.	SDMS	This software package allows the transfer of memory storage to Windows based software packages for report writing. Windows 95, 98 and NT operating systems.
Panel Memory	20 stores for retaining calibrations		

Sonatest is the leading European manufacturer of Ultrasonic Flaw Detectors, Thickness Gauges and Transducers. The Sitescan 240 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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