

SPECIFICATIONS: ETHER NDE RailCheck - IRAL001

Probes	Connectors	LEMO 2B 12 way
	Modes	Absolute, Bridge, Reflections, Conductivity and Rotary 600-3000 rpm ETHER Mercury Drive (ARD002).
Frequency		Dual Frequency 10Hz - 12.8MHz
Gain	Overall	-18 to +100 dB, 0.1, 1 and 6dB steps (100dB Max)
	Input	0dB or 12dB
	Drive	0dB, 6dB and 10dB (0dB ref 1mW into 50Ω)
	Max X/YRatio	+100dB
Phase	Range	0.0 – 359.9°, 0.1° steps
	Auto-Phase	Allows phase angle to be automatically set to a pre-set angle
Filters	Normal High-Pass	DC to 2kHz or Low Pass Filter, whichever is the lower in 1 Hz steps. Plus variable adaptive balance drift compensation 0.01 - 0.5 Hz (6 steps).
	Normal Low-Pass	1Hz to 2kHz or a quarter of the lowest test frequency, whichever is lower in 1 Hz steps.
Balance	Manual	4 internal balance loads; 2.2μH, 5.0μH, 6.0μH, 6.5μH, 7.0μH, 7.5μH, 8.2μH, 12μH, 15μH, 18μH, 22μH, 30μH, 47μH, 82μH
	Automatic	Optimised balance load selection
Alarms	Box	Fully configurable, Freeze, Tone or visual.
	Sector	Fully configurable, Freeze, Tone or visual.
	Output	Open collector transistor (25v dc at 10mA max)
Display	Type	5.7" (145mm), 18-bit Colour, daylight readable
	Viewable Area	115.2mm (Horizontal) x 86.4mm (Vertical)
	Resolution	640 x 480 pixels
	Flip	Manual or automatic screen orientation change to enable left or right-handed use.
	Colour Schemes	User configurable Dark, Bright and Black & White
	Configurable Screen	Full Screen, Single, Dual Spot or Dual Pane with variable size and location. Screen and function e.g. XY, Timebase, Waterfall and Meter
	Display Modes	Spot, Time base (0.1-20 seconds x 1-200 sweeps and up to 55 seconds), Waterfall and Meter with peak hold and % readout
	Graticule	None, Grid (4 sizes 5, 10, 15 and 20% FSH), Polar (4 sizes 5, 10, 15 and 20% FSH)
	Offset	Spot Position: Y =-50 to +50, X =-65 to +65%
	Digital Spot	Display in X, Y or R,θ
Removable Data Storage	Position Readout	Display of all settings in Legacy Format
	Setup Storage	micro SD up to 32GB, holding over 10,000 settings
	Stored Screen Shots	micro SD up to 32GB, holding over 10,000 screen shots
Outputs	Record Replay	Comprehensive Record Replay and Storage. Real-time recording of trace data and Replay on instruments and desktop PC up to 200km max per 2GB file.
	PC Connectivity	USB (Full PC remote control plus Real Time data)
	Digital Alarm	On Lemo 12-way Open collector transistor (25v dc at 10mA max).
Languages	VGA	Full 15-way VGA output
		English, French, Spanish, Russian, Japanese, Chinese, Turkish.
Power	External	100-240 v 50-60Hz 30 Watts
	Battery	Internal 7.2V nominal @ 3100mAh = 22.32 watt.hr
	Running Time	Up to 8 hours with a 2MHz Pencil Probe 30% Back Light
	Charging Time	2.5 hrs. charge time, Simultaneous charge and operation

Technical Data - Trolley

Dimensions (depending on gauge and probes configuration):		
Length	Unit Stowed: 889mm (35")	Operational above rail top: 664mm (26.2")
Width	249mm (9.8")	
Height	Unit stowed: 327mm (12.9")	Operational above rail top: 963 mm (38")
Total mass in operating regime	9.5kg (21lbs)	



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Document number RCheck_temp_Jan2022



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