

Both the WELDCHECK2 and WELDCHECK+ are supplied with a standard “Two Year Manufacturers Warranty”.

This covers all components of the Instruments and only excludes customer damage or misuse.

The “Two Year Warranty” can be extended to “Five Years” through purchase of “ETHERCover” Extended Warranty Protection.

SPECIFICATIONS

		WELDCHECK2	WELDCHECK+
Probe	Connectors	12 Way Lemo 2b (Absolute, Bridge and Reflection) and Connection Lemo 00 (for single element absolute probes)	Simultaneous probe operation possible using Lemo 12 way and Lemo 00
Frequency		Single Freq. = 10Hz – 20MHz with range variable resolution.	Dual Freq. = 10Hz - 12.8MHz
Gain	Overall	-18 to +104 dB, 0.1, 1 and 6dB steps (104dB maximum) + Mix Gain (-18 to +18dB on Output)	
	Input	0dB or 12dB	
	Drive	0dB, 6dB and 10dB (0dB reference 1mW into 50 ohm)	
	Max X/Y Ratio	+/-100.0 dB	
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, which ever 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, which ever is lower in 1 Hz steps	
Balance	Manual	14 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 (50v dc at 10mA max) available on 12 way Lemo	
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	Full Screen, Single, Dual Spot or Dual Pane with variable size and location and function e.g. XY, Timebase, Waterfall and Meter.	
	Screen	Spot, Time base (0.1-20 seconds x 1-200 sweeps and up to 55 seconds), Waterfall and Meter with peak hold and % readout	
	Display Modes	None, Grid (4 sizes 5, 10, 15 and 20% FSH), Polar (4 sizes 5, 10, 15 and 20% FSH)	
	Graticules	Spot Position: Y = -50 to +50, X = -65 to +65%	
	Offset	Display in X,Y or R,θ	
	Digital Spot	Display of all settings in Legacy Format	
	Position Readout	Summary	
Removable	Setup Storage	micro SD up to 32GB, holding over 10,000 settings	
Data Storage	Stored Screen	micro SD up to 32GB, holding over 10,000 screen shots	
	Shots	Comprehensive Record Replay and Storage	
	Record Replay	Real-time recording of trace data and Replay on instruments and desktop PC up to 164 seconds	
Outputs	PC Connectivity	USB (Full PC remote control plus Real Time data)	
	Digital Volt Free	On Lemo 12 way Open collector transistor (36v dc at 10mA max)	
	Alarm	Full 15 way VGA output	
	VGA	English, French, Spanish, Italian, Portuguese, Russian, Japanese, Chinese, Turkish, Czech, Norwegian	
Languages			
Verification	Level	The system includes on delivery a 2 year validity Verification Level 2 detailed functional check and calibration as per ISO 15548-1:2013	
Power On Self	Test	The system performs a self test on start up of external ram, sd ram, accelerometer, Micro SD card, LCD screen buffer	
Power	External	100-240 v 50-60Hz 30 Watts	
	Battery	Internal 7.2V nominal @ 3100mAh = 22.32 watt.hr	
	Running Time	Over 7 hours with a Weld Probe at 100kHz and 50% backlight	
	Charging Time	2.5 hrs. charge time, Simultaneous charge and operation	
Physical	Weight	1.2 kg, 2.7 lbs	
	Size (w x h x d)	237.5mm x 144mm x 52mm / 9.4" x 5.7" x 2.1"	
	Material	Aluminium alloy Mg Si 0.5 powder-coated	
	Operating Temp	-20 to +60 °C	
	Storage Temp	Storage for up to 12 months -20 to +35 °C Nominal +20 °C	
	IP Rating	54	

WELD PROBE KIT

KAWEL001 KIT, Weld, Probes + Accessories Including:

PWM100500 Probe, Weld, Dia 16.00mm (Medium) 100kHz, Straight, Disconnect

PUB100k Probe, Unshielded, Broad Band, 100k (35kHz-250kHz), BNC

ATBW Accessory. Test Block, Weld Probe, Ferrous (Steel EN1A) x 4 x 0.5mm Shims, 0.5, 1.0, 2.0mm slots

ALL12-L04-015B Accessory, Lead, Lemo 12-Way - Lemo 4-Way, 1.5m (Bridge)

ALLCX-B02-015A Accessory, Lead, Lemo 00 to BNC, 1.5m

AW003 Accessory, Butterfly PTFE Tape (Pack of 30)

AC002 Accessory, Deluxe Probe Case PHDC1

ADVANCED FEATURES

Guides	Create and display a slide show containing instructions, tutorials and procedures using Microsoft PowerPoint.
Attachments	Screenshots and Data Recordings are saved in a folder with the name of the Settings.
Loop	Capture a live repetitive signal and then optimise the instrument settings (Phase, Gain, Filters) to simplify optimising the parameters
Trace	Allows a calibration reference signal to be stored on the screen and then compared with the live signal
Data Output	Real-time post processed over USB at 8kHz overall for all 3 data pairs (X, Y and Mix) with DLL for embedding functionality into software.
WELDCHECK+ ONLY ADVANCED FEATURES	
Lift Off Gain	Automatically compensates the gain of the defect channel according to the paint thickness

CONDUCTIVITY SPECIFICATION (WELDCHECK+ ONLY)

Frequency	One frequency only 60kHz standard (choice of 120, 240 and 480kHz)
Accuracy	0.5%-10% IACS better than +/-0.05% IACS 10%-25% IACS better than +/-0.25% IACS 25%-60% IACS better than +/-0.5% IACS 60%-110% IACS better than +/-1% IACS Lift Off corrected to 1.0mm No temperature compensation All Errors at 90% Confidence Level
Resolution	3 decimal points max Auto Resolution Mode AutoS = Legacy Instrument, Auto = SigmaCheck

EQUIPMENT KITS

STANDARD WELDCHECK SERIES KITS

KIWEL003 Kit, WeldCheck2, Eddy Current Portable Flaw Detector, Including:

IWEL003 Instrument, WeldCheck2, Single Frequency, (10Hz-12.8MHz) Hand Held, Portable Flaw Detector. Software + Manual on USB Stick

AWEL002 AeroCheck, Power Adapter + Input Plugs (UK, EU, US & Australia)

AWEL003 Adjustable Shoulder Strap, Padded with Quick-Release

AC006 Instrument Soft Carry Case

A090 USB Cable, A to MIN B

40463 Quick Reference Card

KIWEL002 Kit, WeldCheck+, Eddy Current Portable Flaw Detector, Including:

IWEL002 Instrument, WeldCheck+, Dual Frequency, (10Hz-12.8MHz) Hand Held, Portable Flaw Detector. Software + Manual on USB Stick

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ALLCX-M02-015A Lead, Lemo 00 to Microdot, 1.5m (Absolute)

ALL12-L04-015B Lead, Lemo 12-Way - Lemo 4-Way (Bridge)

OPTIONAL ACCESSORIES

AWER002 Hard Transit Case

AAER004 Protective Splash Proof Cover (WeldCheck2, WeldCheck+, AeroCheck2, AeroCheck+)

AWEL006 External, 8 x AA Battery Holder with On/Off Switch

AWEL008 In car Power Adapter

ALL12-L04-015R Lead, Lemo 12-Way - Lemo 4-Way, 1.5m (Reflection)

ALL12-L04-015B Lead, Lemo 12-Way - Lemo 4-Way, 1.5m (Bridge)

ALLCX-M02-015A Lead, Lemo 00 to Microdot, 1.5m (Absolute)

ALLCX-B02-015A Lead, Lemo 00 to BNC, 1.5m (Absolute)

USEFUL PROBE KITS

KASUR001 KIT Surface Inspection (4 probes, lead and Al and Fe Test Block)

KASUBS001 KIT Sub Surface Inspection, Low Frequency (2 probes, lead and test piece)

KACON001 KIT Conductivity Kit (Probe, Calibration and Cable) - (AeroCheck+ & WeldCheck+ only)

