

Both the AEROCHECK2 and AEROCHECK+ are supplied with a standard “Two-Year Manufacturer 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

		AEROCHECK2	AEROCHECK+
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.
	Rotary	600-3000 rpm - Ether Mercury Drive (ADR002), Hocking 33A100, Rohmann MR3, SR1 and SR2 Drive (special adapter needed)	
Frequency		Single Freq. = 10Hz – 20MHz with range variable resolution.	Dual Freq. = 10Hz - 12.8MHz & Mix -18 to +18dB on output
Gain	Overall Input Drive Max X/Y Ratio	-18 to + 104dB, 0.1, 1 and 6dB steps (104dB maximum) 0dB or 12dB 0dB, 6dB and 10dB (0dB reference 1mW into 50 ohm).	
Phase	Range Auto Phase	0.0-359.9°, 0.1° steps Allows phase angle to be automatically set to a pre set angle	
Filters	Normal High Pass Normal Low 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). 1Hz to 2kHz or a quarter of the lowest test frequency, which ever is lower in 1 Hz steps.	
Balance	Manual Automatic	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 Optimised balance load selection.	
Alarms	Box Sector Output	Fully configurable, Freeze, Tone or Visual. Fully configurable, Freeze, Tone or Visual. Open collector transistor (32v dc at 10mA max) available on 12 way lemo.	
Display	Type Viewable Area Resolution Flip Colour Schemes Configurable Screen Display Modes Graticules Offset Digital Spot Position Readout Summary	5.7" (145mm), 18 bit Colour, daylight readable. 115.2mm (Horizontal) x 86.4mm (Vertical) 640 x 480 pixels Manual or automatic screen orientation change to enable left or right handed use. User configurable Dark, Bright and Black & White Full Screen, Single, Dual Spot or Dual Pane with variable size and location and function e.g. XY, Timebase, Waterfall and Meter. Spot, Time base (0.1-20 seconds x 1-200 sweeps and up to 55 seconds), Waterfall and Meter with peak hold and % readout. None, Grid (4 sizes 5, 10, 15 and 20% FSH), Polar (4 sizes 5, 10, 15 and 20% FSH) Spot Position: Y =-50 to +50, X =-65 to +65% Display in X,Y or R,θ Display of all settings in Legacy Format	
Removable Data Storage	Setup Storage Stored Screen Shots Record Replay	micro SD up to 32GB, holding over 10,000 settings micro SD up to 32GB, holding over 10,000 screen shots Comprehensive Record Replay and Storage Real-time recording of trace data and Replay on instruments and desktop PC up to 164 seconds	
Outputs	PC Connectivity Digital Volt Free Alarm VGA	USB (Full PC remote control plus Real Time data) On Lemo 12 way Open collector transistor (36v dc at 10mA max). Full 15 way VGA output	
Languages		English, French, Spanish, Italian, Portuguese, Russian, Japanese, Chinese, Turkish, Czech, Norwegian	
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 Battery Running Time Charging Time	100-240 v 50-60Hz 30 Watts Internal 7.2V nominal @ 3100mAh = 22.32 watt.hr Up to 8 hours with a 2MHz Pencil Probe 30% Back Light and up to 6 hours with a Rotary Drive at 3000rpm 50% duty cycle. 2.5 hrs. charge time, Simultaneous charge and operation.	
Physical	Weight Size (w x h x d) Material Operating Temp Storage Temp IP Rating	1.2 kg, 2.7 lbs. 237.5mm x 144mm x 52mm / 9.4" x 5.7" x 2.1" Aluminium alloy Mg Si 0.5 powder-coated -20 to +60 °C Storage for up to 12 months -20 to +35 °C Nominal +20 °C 54	

ADVANCED FEATURES

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.

CONDUCTIVITY SPECIFICATION (AEROCHECK+ 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 AEROCHECK SERIES KITS

IAER003 Instrument, AeroCheck2, Single Frequency (20Hz-20MHz), Hand Held Portable Flaw Detector, Software + Manual on USB Stick
IAER002 Instrument, AeroCheck+, Dual Frequency (10Hz-12.8MHz) Hand Held, Portable Flaw Detector, Software + Manual on USB Stick, with Rotary & Conductivity at 60kHz Functionality
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
ALLCX-M02-015A Lead, Lemo 00 to Microdot, 1.5m (Absolute)
ALL12-L04-015R Lead, Lemo 12-Way - Lemo 4-Way (Reflection)

OPTIONAL ACCESSORIES

AAER002 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)
ARD002 Mercury (mini) Rotary Drive
ALL12-L12-020M Lead to connect Mercury (mini - ARD002) Rotary Drive, Lemo 12-Way, 2m
ALL12-F08-020ETH Adapter, lead to connect Rohmann Rotary Drive MR3, SR1 and SR2, Lemo 12-Way, 2m.
40470 Tripod Bracket To fit 1/4" Camera Tripod Mount with Male Screw

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)
KAROT001 KIT Mercury Rotary Drive and Cable Only
KACON001 KIT Conductivity Kit (Probe, Calibration and Cable) - (AEROCHECK+ only)

