EDDY CURRENT FLAW DETECTOR

WeldCheck

THE RIGHT TOOL FOR THE JOB

• Large, Crisp Daylight Readable Display
• Easy to Use
• 8.5 Hrs + Battery Life
• Industry Standard Probe Connectors
• Great Eddy Current Performance

ETHER NDE
WORKS THE WAY YOU DO!
The WELDCHECK has been created with User convenience and efficiency in mind at all stages of the design and manufacturing process. One Key Benefit of the WELDCHECK is the ability to work identically in left-handed and right-handed mode; thanks to the incredible “Flip” function.

LIGHTWEIGHT, COMPACT & RUGGED
We have built the WELDCHECK with these points in mind. The WELDCHECK weighs just 1.2kg and has a robust hardwearing metal casing with the internal design optimised to resist moist, tropical or salt-laden atmospheres.

21ST CENTURY CONNECTORS
Under the flap there is a USB Connection for fast data transfer, SD Card Slot and VGA output for classroom and head-up display use.

EASY TO USE WITH “ALL-IN-ONE” MAIN MENU
The WELDCHECK features a simple “single-level” menu system. In addition, any menu item can be added to the “Quick Menu” sidebar with its own easily recognisable Icon enabling faster adjustments during the inspection process.

As with mobile phone or keyboard usage, our fingers become accustomed to repeating patterns of key presses. The WELDCHECK keypad has been cleverly designed to exploit this trait, with all critical keys being in the same position regardless of whether the Instrument is being operated in “right-handed” or “left-handed” mode.

EXTRAORDINARY BATTERY LIFE
With more than 8.5 hours battery life with a 100kHz Weld Probe and maximum backlighting, the WELDCHECK is an obvious choice when faced with a long day of Eddy Current NDT. With the internal memory able to store over 500 saved readings, the WELDCHECK can easily be in the field for an entire shift without needing to be returned to base for charging.

Even better, the AA battery power pack can extend the battery running time for a further 4 hours.

ROBUST CASE
Tough aluminium alloy Mg Si 0.5 powder-coated outer case.
We understand that the operator will use the WeldCheck in all types of weather and light conditions and being able to see the screen clearly is a top priority.

The WeldCheck has a fully daylight readable 14.5cm LCD Colour Screen of 640 x 480 pixels ensuring the Operator has excellent signal resolution and presentation no matter what the working conditions are.

The operator has the choice of configuring their own colour schemes and display types. This will optimise their viewing ability of the screen in any light conditions. It is possible to view the readings in a choice of spot, time-base, waterfall or meter display types.

The WeldCheck is able to use absolute, bridge, reflection and connected probes and is fitted with the industry standard 12 Way LEMO Connector and a LEMO 00 for absolute probes.

EQUIPPED FOR ALL ENVIRONMENTS

We know that in an oilfield environment the WeldCheck is going to come up against some of the harshest working conditions in the NDT industry, not to mention being lifted and lowered on ropes, dropped and bumped.

With a rear foot stand and four harness attachment points, the WeldCheck is designed to be used in all environments from the desktop in the office to the rigours of the job site.

EASY ICON SYSTEM

In order to allow the operator to configure the instrument for ease of use there is a system of operator-selectable soft keys. Every menu item has its own easily recognisable icon. There are four soft key positions for operator selectable icons for frequently used functions and a fifth position for the last menu function used. Each saved instrument setting can be associated with a unique, one press set of quick access functions. There are also two front panel hard keys that can also be easily programmed for rapid one press access to instrument functions.

DAYLIGHT VISIBLE LARGE COLOUR SCREEN

INDUSTRY STANDARD PROBE CONNECTOR
### SPECIFICATIONS & KIT LIST

#### STANDARD WeldCheck Kit
- **IWEL001** - Instrument, WeldCheck, Single Frequency (20Hz-20MHz), Hand Held Portable Flaw Detector, Software + Manual on USB Stick
- **AWEL002** - Accessory, WeldCheck, Power Adapter + Input Plugs (UK, EU, US & Australia)
- **AWEL003** - Accessory, Adjustable Shoulder Strap, Padded with Quick-Release
- **AC006** - Accessory, Instrument Soft Carry Case
- **A090** – USB Cable, A to MIN B, 1 meter
- **40449** - Quick Reference Card – WeldCheck

#### OPTIONAL ACCESSORIES
- **AWEL004** – Accessory, Hard Transit Case (WeldCheck)
- **AWEL005** – Accessory, Protective Splash Proof Cover / Rope Access
- **AWEL006** – Accessory, External, 8 x AA Battery Holder and On/Off Switch
- **AWEL007** – Accessory, Wrist Strap
- **AWEL008** – Accessory, In car Power Adapter
- **ALL12-L04-015R** – Accessory, Lead, Lemo 12-Way - Lemo 4-Way, 1.5m (Reflection)
- **ALL12-L04-015B** - Accessory, Lead, Lemo 12-Way - Lemo 4-Way, 1.5m (Bridge)
- **ALLCX-M02-015A** - Accessory, Lead, Lemo 00 to Micro-SD, 1.5m (Absolute)
- **ALLCX-M02-015B** - Accessory, Lead, Lemo 00 to BNC, 1.5m (Absolute)

#### STANDARD WELD INSPECTION PACKAGE
- **PWM100S000** - Probe, Weld, Medium, Dia 16.00, 100kHz, Straight, Disconnect
- **PUB100K** - Probe, Unshielded, Broad Band (Paint), 100k (35kHz-250kHz), BNC
- **ATB** - Accessory, Test Block, Weld Probe, Ferrous (Steel EN1A) + x4 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 Micro-dot, 1.5m (Absolute)
- **ALLCX-B02-015A** - Accessory, Lead, Lemo 00 to BNC, 1.5m (Absolute)

## Probe Connection
- **12 Way Lemo 2b (Absolute, Bridge and Reflection) and Lemo 00 (for single element absolute probes).**

## Frequency
- **Single Frequency**
- **20Hz – 20.00 MHz with range variable resolution.**

## Gain
- **Input**
- **18 to + 100 dB, 0.1, 1 and 6dB steps**
- **Drive**
- **0dB to 6dB steps (0dB reference 1mW into 50 ohm)**
- **Max X/Y Ratio**
- **+/-100.0 dB**

## Phase
- **Range**
- **0-359°, 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 test frequency, which ever is the lower in 1 Hz steps.**
- **Plus variable adaptive balance drift compensation (0.01 – 0.5 Hz)**
- **Normal Low Pass**
- **5 to 2kHz or % test frequency, which ever is the 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**

## Alarms
- **Box Sector Output**
- **Fully configurable, Freeze, Tone or visual.**
- **Open collector transistor (50v dc at 10mA max) available on 12 way lemo.**

## Display
- **Type**
- **18 bit Colour, daylight readable, 5.7” screen.**
- **Viewable Area (Horizontal x Vertical)**
- **115.2mm x 86.4mm**
- **Resolution (pixels)**
- **640 x 480**
- **Colour Schemes**
- **User configurable including High Contrast**
- **Configurable screen**
- **Full Screen, Single or Dual screen with variable size and location and function e.g. Screen – Spot and Timebase**
- **Display Modes**
- **Spot, Time base (0.1-20 seconds x 1-200 sweeps), Waterfall and Meter**
- **Graticules**
- **None, Grid (4 sizes 5, 10, 15 and 20% FSH), Polar (4 sizes 5, 10, 15 and 20% FSH)**
- **Offset**
- **Trace Position: +/-50%**
- **Digital Spot Position Readout**
- **Display in X,Y or R,B**

## Internal Data Storage
- **Setup Storage**
- **microSD up to 2GB, holding over 500 saves.**
- **Stored Traces**
- **microSD up to 2GB, holding over 500 saves.**

## Outputs
- **PC Connectivity**
- **USB (Full PC remote control plus Real Time data)**
- **Digital volt free alarm**
- **On Lemo 12 way**
- **VGA**
- **Full 15 way VGA output**

## Languages
- **Initially English, French, German, Spanish, Italian, Portuguese, Czech, Polish. Others to follow**

## Power
- **External Battery**
- **100-240 v 50-60Hz 30 Watts**
- **Internal 7.2v @ 2900 mAh 20.88Wh**
- **Weld Probe plus 100% backlight over 8.5 hrs. Up to 10.5 hrs. with 50% backlight.**
- **2.5 hrs. charge time, simultaneous charge and operation.**

## Physical
- **Weight including internal battery**
- **1.2 kg, 2.6 lbs.**
- **Size (width x height x depth)**
- **223 x 141 x 50 mm / 8.8 x 5.6 x 2.0 inches**
- **Material**
- **Aluminium alloy Mg Si 0.5 powder-coated**
- **Operating Temperature**
- **0 - 50 °C**
- **Storage Temperature**
- **-10 - 70 °C**
- **IP Rating**
- **54**