



SIGMACHECK 2 Comprehensive Eddy Current Conductivity Meter



- Lightweight, ergonomic slime-line case with easy to hold probe with adjustable finger grip.
- High resolution colour display (2.8"/71mm, 320 pixels by 240pixels)
- Operating frequencies 60kHz, 120kHz, 240kHz, 480 kHz. Option of 960 kHz.
- Range of Reference Standards available for in-field use.
- High impact, splash-proof flame retardant ABS case.
- Over 12 hours battery life.
- Two year warranty, extendable to 5 years with ETherCover.

The SIGMACHECK 2 Eddy Current Conductivity Meter is designed to give accurate conductivity measurements while offering the user the very best in reliability, usability, technology and cost-effectiveness.

The instrument is extremely user friendly and can just as easily be operated by a semi-skilled Operator as by Experts. It will be equally at home in the Aerospace, Metals Processing, Casting, Maintenance and Quality Assurance industries as well as appealing to Heat Treatment Specialists and those determining the purity of materials such as gold bullion and coins.

APPLICATIONS

- Material verification / sorting.
- Heat treatment verification.
- Heat or fire damage investigation.
- Lightning damage investigation.
- Material ageing assessment.
- Measuring phosphor content of Cu alloys.
- Monitoring of deposition process for non-ferrous material on a nonferrous substrate.
- Monitoring the condition of highly stressed parts
- Forged/plated material verification.
- Non-conductive coating thickness measurement.
- Determining the purity / composition of materials i.e. gold bullion and coins.
- Aircraft structures e.g. Paint thickness measurement.
- Assessment of ageing of alloys



Key Benefits

- User programmable display.
- 2GB of data storage. Able to store over one million data points.
- Uploaded data can be viewed using MS Excel.
- Intelligent charger via Micro USB Port.
- Excellent resistance to "edge effect".
- Rapid Display of Conductivity Results.
- Battery life (up to 12 hours).
- Field upgradeable Firmware.
- Different probes may be configured by loading the appropriate probe map from SD Card.
- Real-time clock readings can be "time stamped".



Advantages

- High resolution colour display (2.8"/71mm, 320 pixels by 240 pixels).
- Lockdown mode allows advanced users to lock down features and settings for basic operator mode.
- Accurate conductivity range (0.5% IACS to 110% IACS, 0.28-64 Ms/m).
- Wide range of frequencies for testing thin materials (60kHz, 120kHz, 240kHz, 480kHz). Option of 960kHz.
- Non-conductive coating thickness. Measurement display up to 0.5mm.
- Lightweight (350 grams / 12 oz). Ergonomic slim-line case design and easy to hold probe with adjustable finger-grip.
- Two-year warranty on instrument (excludes batteries), extendable to 5 years with ETherCover.

High Resolution Display

The full colour 2.8" LCD display screen is 320 x 240 pixels providing excellent resolution and displaying conductivity and lift-off results with up to three decimal places precision. The display features an adjustable LED backlight allowing the Operator to set their required screen brightness. The Operator can also customise both the background colours and text colours to meet their personal preference.

In-Field Performance and Reporting

ETher NDE also offer "Field Exchangeable Probes", configuration files delivered via micro SD Card or PC download via USB for the SIGMACHECK 2. This removes the need for the Instrument to be sent back for matching with the Probe. By using a card reader or our PC Software, the new data for the Probe can simply be copied onto the SD Card in the Instrument, speeding up this process even further.

USB PC Connectivity is built into the SIGMACHECK 2 for remote control and data logging. The USB Connection also offers real time data acquisition as well as eliminating any complicated driver installation. In addition, the USB Connection allows easy charging of the Instrument.

Understanding Conductivity

Electrical conductivity is the measurement of a materials ability to conduct an electric current. This is the inverse of electrical resistivity, measuring a materials ability to resist an electric current.

Conductivity in metal is established using Ohm's Law, which states that current through a conductor between two points, is directly proportional to the potential difference across the two points. The resistance of the material, which is a constant for that material, allows the usual mathematical equation for this relationship to be true. Conductivity is widely used to indicate material type and determine the state of heat treatment.

In order to give accurate readings the SIGMACHECK 2 uses a three-point reference method. The first measurement with the probe in the air and then two further measurements are required which span the range of interest.

The SIGMACHECK 2 is supplied with a detachable reference piece with two standards that span the range of commonly used metals.

ETher NDE also manufacture individual conductivity test blocks which may be used to match the clients own testing requirements. We can also provide a handy test block holder (Part number: ASIG003) that can hold up to five of these test blocks at any one time as shown above.





Conductivity Test Blocks in holder.

SigmaCheck 2 Specification

Inspection TechnologyEddy CurrentOperating Frequencies60 kHz, 120 kHz, 240 kHz, 480 kHz. Option of 960 kHz.Conductivity Range0.5 % IACS to 110 % IACS, 0.28-64 MS/mAccuracyProbe must be in thermal equilibrium with test material, and instrument and probe stabilized prior to testing, Minimum 15-minute warm up time for stabilisation. At 20°C: 0-20% IACS ± 0.05 IACS ta 0.05 iACS ± 0.05 IACS ta 20°C: 0-20% IACS ± 0.05 /ACS ta 20°C: 0-20% IACS ± 0.05 /ACS ta 20°C: 0-20% IACS ± 0.25% of readoutDisplay ResolutionUp to 3 decimal places.Lift Off13mm probe compensated to 0.020° (0.5mm) 7 mm probe compensated to 0.010° (0.25 mm)Temperature MeasurementIn-probe sensor (accurate to 0.5 °C)Range 0 °C to + 50 °CRange 0 °C to + 50 °CAutomatic Temperature ture CompensationOnductivity measurements are corrected to the 20°C valueDisplay0.95% relative humidity, 0°C to + 50°C for reliable operation.Automatic Temperature ture CompensationMultiple languages available. e.g. English, German, French, Spanish.Construction & Storage text the unit, probes, probe cable, operator manual on USB, and removable stand.Conductivity Standerd0 to p of unit. Removable for value verification, and when attached ensures thermal equilibriumPowerI63mm (6.4″) x 80mm (3.1″) 25mm (1.0″).Weigh358g (0.791bs) including batteries and dual reference blockData Logger MemoyMicro USB port for charger & PC CommunicationsProbes are interchangeable with simple operator resetting procedure.PC ConnectivityMicro USB port for charger & PC CommunicationsProbes a		
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"Small" Probe Small 8mm probe available (PSIG002A)	Optional Transit Case	Optional high quality rugged transit case (ASIG004)
	"Small" Probe	Small 8mm probe available (PSIG002A)



Product Part Numbers





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