



QuickCheck

Bar Graph Display Eddy Current Instrument

- ◆ Crack detection, metal sorting and hardness verification in ferrous and non-ferrous metals.
- ◆ Hand-held, rugged and lightweight; battery operated instrument.
- ◆ Suitable for use in semi-automatic, fully automatic and robotic testing systems.
- ◆ Compatible with a wide range of differential, absolute and reflection probes and coils.
- ◆ Dedicated microprocessor.
- ◆ Internal memory stores up to 10 programs
- ◆ Simplified operation with bar-graph display.
- ◆ Fast, stable and reliable.
- ◆ Automatic lift-off setting.

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Specifications

Control

Microprocessor

Program Memory

Store of up to 10 sets of operational parameters

Frequency

L version 5kHz, 10kHz, 30kHz, 100kHz, 200kHz and 500kHz

H version 100kHz, 200kHz, 500kHz, 1MHz, 2MHz and 3MHz

Gain

Differential 25 to 60dB in 0.5dB steps

Absolute 15 to 50dB in 0.5dB steps

Phase Selection

0-360° in 0.5° increments

Filters

1.6Hz High Pass filter (ON/OFF)

Other options are available

Sensitivity

100Volt/ohm

Frequency Response

L version: 80Hz

H Version: 400Hz

Bridge Impedance

Absolute 100ohms

Differential 50ohms

Lift-off

Automatic lift-off setting for absolute probes. Rapid manual phase rotation is available for both absolute and differential probes

Balance

Fast digital balancing

Display

Bar graph displays defect signals from -40% to +100% settings in 5% increments

8 digit alpha/numeric LED display of operating and set-up information

Outputs

RS232 serial port, TTL or Relay alarm outputs, 15 way auxiliary analogue port

Alarm

Positive and negative, or dual positive, limits -40% to +100% settings. Alarm on time and delay variable.

Power

Three NiCad 'C' cells with built-in charger/power supply suitable for 115V and 230V supply with automatic voltage selector. Alkaline cells may also be used.

Environment

Operation temperature -20°C to +50°C (-4°F to +122°F)

Storage temperature -30°C to +60°C (-22°F to 140°F)

Humidity 0 to 95%

Construction

Cast alloy case with splash-proof seals. Tilt handle, electrical ground receptacle. Optional soft protective carrying case.

Size

180mm x 240mm x 80mm

(7 x 9.4 x 3") excluding handle

Weight

2.0kg (4.4lb) with batteries

QuickCheck is an easy-to-use Bar Graph display instrument for detecting surface cracks or blemishes, metal sorting and hardness verification in ferrous and non-ferrous metals and engineering components.

Test results are displayed on a LED Bar Graph which, together with audible alarms, allows QuickCheck to be used as a quick and reliable GO/NO GO testing instrument. QuickCheck presents an uncomplicated face to users, with an easily understood bar-graph display. Internally, it performs a full impedance plane analysis under microprocessor control with the benefit of stored optional programmes.

Menu driven software allows the user to quickly and easily set the frequency, gain, phase, filters and alarms at the start of each job. These operating parameters can be stored in the internal memory for instant recall at a later date.

Versatility

QuickCheck is compatible with a wide range of differential, absolute and reflection probes and coils.

QuickCheck H

High Frequency version operating from 100kHz to 3MHz.

QuickCheck L

Low Frequency version operating from 5kHz to 500kHz

Shop Floor Operators

QuickCheck is ideal for shop floor operators with minimal eddy current experience. It can be pre-programmed for up to ten different jobs so all the operator has to do is switch on, choose the program and then start work. QuickCheck is easy to use and enables a qualified person to devise the testing technique and set the operating parameters in memory.

Site Engineers

QuickCheck is small enough to fit into a briefcase or tool box. It is the ideal instrument for engineers, inspectors, insurance assessors and safety officers who need to do their own testing on site.

Automation

QuickCheck's remote control facility together with its relatively small size and cost make it an obvious choice for robotic or automatic testing systems. This can be a bench top unit with a device to handle the probe or test item; or a larger in-line testing system.

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