

# LOCATOR 3s

## EDDY CURRENT FLAW DETECTOR



## GENERAL DESCRIPTION

The Locator 3s is the base model in the eddy current flaw detection family.

### CONDUCTIVITY MEASUREMENT

The Locator 3s can handle non-ferrous material sorting for a number of applications, including:

- conductivity to establish correct inspection frequency
- Verification of material hardness & state of heat treatment
- Assessment of heat damage in aluminium alloys
- Aids in material identification as part of a quality control system

These instruments measure the conductivity of non-magnetic metals and alloys in the range of 0.8 to 110.0 % IACS and use the eddy current technique for measuring the conductivity of materials in % IACS or MSiemens/metre (user selectable).

To make the conductivity measurement process as simple as possible, all our flaw detectors provide the operator with step by step instructions for the test. The results are clearly displayed on the screen as shown below.

### COATING THICKNESS MEASUREMENT

The Locator 3s has an inbuilt coating thickness meter which may be used for:

- Non-conductive coating measurement on non-ferromagnetic materials
- Paint coating measurement
- Quality control in the surface coating industry
- As part of a test procedure to improve the reliability of eddy current testing

As with conductivity measurement, our instruments take the operator through a simple set of instructions and displays the results clearly on the screen.

### INSTANTANEOUS BALANCE

Locator 3s balances immediately on pressing the button so there is no waiting for the unit to ready itself.



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work for you!**

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Accredited to BS EN ISO 9001:2000

# LOCATOR 3s EDDY CURRENT FLAW DETECTOR

## TECHNICAL SPECIFICATIONS

### Frequency

Frequency Range

10 Hz to 10 MHz

### Gain

Gain

- 8 dB to 96 dB

Independent X-Y Gain

Yes

Input Gain

Selectable 0 dB and 14 dB

Probe Drive

0 / -8 dB / +8 dB

### Phase

Phase

0 to 359 degrees in 0.1 degree steps

### Filters

Low Pass

3 Hz to 2.0 kHz

High Pass

DC to 1.99 kHz

### Balance Load

Automatic or Manual

Yes

### Alarms

Box

Yes

Sector

Yes

"+/-" Level

Yes

Flashing LED, Tone or

Yes

Freeze options

Yes

### Operating Modes

Single Frequency

Split Screen - Timebase/Spot

N/A

Competitive Scanners Capability

N/A

Conductivity

Yes

Coating Thickness

Yes

### Display

Display Type

Backlit LCD

Display Size (Viewable Area)

115 mm x 78 mm

Trace Enhance

Yes

Spot Position Readout

Yes

Graticules - 4 options Grid 1,

Yes

Grid 2, Polar & None

### Internal Data Storage

Stored Set-ups

Up to 50

Stored Traces

Up to 50

Record/Replay

Yes

### Probe Connection

12 Way Lemo

Yes

### Outputs

PC Connectivity

Standard RS 232 via 7 Way Lemo

X/Y Analog

Yes

VGA

Yes

### Languages

English, French, German, Spanish,

Yes

Portuguese, Chinese & Japanese

### Physical Characteristics

Weight including Battery

0.94 kg

Size

192 mm x 140 mm x 55 mm



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