



CONTACT-FREE MEASURING

Innovative instrument capable of characterising and measuring intensity, with no contact required

Technological benefits

A multi-functional device

Detects the presence of electrical current
 Characterises the current (AC-DC)
 Measures the intensity
 Defines depth of characterised wire

Contact-free system, with no encircling

No disassembly required
 Quickly check a high quantity of bundles
 No risk of damage to device

Simple, ergonomic technology

Reduced dimensions
 Stand-alone device
 Intuitive commands and interface
 Large, easy-to-read LCD screen
 Rechargeable batteries
 Functional, ergonomic design

High precision instrument

Accurate to 0.1 mA
 Resolution of depth measurement < 1 mm
 Complies with current industry standards

Invention overview

Characterisation of magnetic field emitted by the electrical current via magnetic GMR sensors and a sampling system to block out spurious noise.

Two operating methods: sensor placed on wire to measure intensity, and depth measurement of concealed wire undergoing characterisation.

Commercial benefits

A reliable system unlike any other on the market

Unaffected by surrounding magnetic disturbances
 A major time-saver
 Based on proven, low-cost technologies
 Complies with current industry standards

Patented invention, available under licence



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Product proposal,
 including detection system

Potential applications

Professionals in industrial maintenance and electricity:

- Inspection/maintenance device for electrical circuits
- Intensity measurement
- Depth measurement for concealed wire
- Control units
- Photovoltaic panels
- Electrical distribution boards
- Industrial networks

Electronics and do-it-yourself enthusiasts