



CGM CIGIEMME S.p.A.



Controlli Non Distruttivi - Non Destructive Testing

MAGNETIC FIELD METER TFT RT1



DESCRIPTION

The TFT RT1 magnetic field meter is a portable digital instrument ideal for magnetic particle testing, used to measure continuous, alternating and pulsating magnetic fields and residual magnetism; it can also indicate polarity (North/South).

USER INSTRUCTIONS

To use the device correctly during magnetic particle inspection, follow these steps:

Initial setup: switch on the instrument and select the type of field to be measured (continuous, pulsed or alternating). The device is also capable of detecting polarity and residual magnetism.

Probe positioning: use the specific probe designed for tangential measurements. Place or bring the probe close to the surface of the piece under inspection to detect the magnetic field intensity.

Data reading: observe the digital display to view the measured value. The instrument acts as "two instruments in one", integrating different measurement modes to ensure compliance with industry standards (aerospace, automotive, etc.).



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The instrument instantly measures and simultaneously displays:

In DC:

average value \hat{H} ;

actual peak H value.

In AC:

average value \hat{H}_{RMS} ;

actual peak H value.

Post-magnetization verification: after completing the test, use the TFT RT1 to check for any residual magnetism, which is essential for deciding whether to proceed with the component's demagnetization. The magnetic field values (tangential and residual) measured and displayed by the instrument are expressed in A/cm or Gauss.

PROBES DESCRIPTION

- Tangential probe for tangential field measurement – with cable length = 1 m.
- Axial probe for residual magnetism measurement – with cable length = 1 m.
- Flat microprobe (2.5 mm) for measuring residual magnetism inside “gorges” – “incisions” and “cracks”.

MAIN APPLICATIONS

- Field strength verification during magnetization.
- Monitoring alternating or pulsating magnetic fields.
- Measurement of residual magnetic field on machined parts.
- The instrument is also able to indicate the polarity of the magnetic field.
- Specific probes designed for measurements on metal surfaces during non-destructive testing.
- The instrument can be equipped with special connection ports and integrated into automatic systems in order to detect magnetic fields.

AVAILABLE MODELS

PART NUMBER	DESCRIPTION	REF.
05089740	TFT RT1 meter + battery charger 230 V 50 Hz-12 V	96.2M
05089736	Tangential probe for measuring tangential field	96.3M/N
05089737	Axial probe for measuring the residual magnetism	96.4M/N
05089738	“Hall” Effect Micro-Probe for measuring the field strength and residual magnetism inside recessed small areas	96.6M/N
05089739	Battery Charger 230 V 50 Hz-12 V (spare part)	96.7M/N



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