

KARL DEUTSCH

## Measuring instrument for magnetic field strengths, Type: 3873



### Order data

Order number	496970 3873
GTIN	2050002080768
Item class	40W

### Description

#### Version:

Measurement device for convenient and practical field strength measurement. For magnetic powder crack detection workpieces are magnetised by a current or field passing through them. For reliable detection of cracks a certain minimum magnetising field must be achieved. After the test the workpiece is usually demagnetised.

Thanks to its user-friendly operation and robust rubberised protective frame the DEUTROMETER is suitable for rough everyday conditions of testing. The DEUTROMETER measures magnetic fields, both constant and low-frequency alternating. Both the magnetising field strength and also the residual field strength are measured directly after each other.

- Large illuminated display
- Constant fields / alternating fields are detected automatically. This eliminates false measurements due to incorrect setting of the instrument.
- The selected unit of measurement is shown directly in the display.
- Visual and acoustic warnings if the limit value is exceeded, allowing quick checking of workpieces
- Simultaneous display of the measured value and maximum value
- Selectable measurement modes: Standard display or bar chart display for visual limit value checking
- No calibration is necessary
- Satisfies the requirements of EN ISO 9934-3:2002 chapter 9.3
- Suitable for inspection tasks to EN ISO 17638 chapter 5.5.2

**Measurement properties:**

- **Measurement variables:** magnetic field strength H or induction B (in air)
- **Measurement units:** mT, A/cm, kA/m, Gauss
- **Measurement methods:** DC = measurement of a constant field that does not vary over time, with assignment of a + or - as the leading sign of the magnetic field AC = effective value in an alternating field (true RMS)

**Application areas:**

- **Measurement constant field / alternating field (automatic detection)**
- **Measurement constant field / alternating field (automatic detection with limit value monitoring)**
- **Constant field measurement (e.g. for residual fields)**
- **Alternating field measurement (e.g. measurement of the magnetising intensity)**

**Supplied with:**

Incl. transport case and test certificate

**Optional extras:**

Measuring probes No. 496972, zero field chamber and reference magnet with defined field strength

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**Technical description**

Weight	0.23 kg
Error limit	$\pm 10 \pm 2\%$ (DC) $\pm 50 \pm 4\%$ (AC) A/m
Measuring range	$\pm 80.000$ A/m
Length	133 mm
Height	32 mm
Width	81 mm
Type of product	Field strength measuring instrument