

## Ferro-master



### Performance Specifications

- ✓ Measure Range :  $\mu = 1.001$  to 1.999
- ✓ Resolution : 0.001
- ✓ Accuracy ( 20°C ) :  $( \mu - 1 ) \times 5\%$ , ref. To NPL calibration
- ✓ Standards, can be readjusted : standards, can be readjusted
- ✓ Operate temperature range : 0 ~ 50°C
- ✓ Field strength at probe tip : ~ 25 kA/m
- ✓ Battery : 9V ( PP3, Alkaline )
- ✓ Continuous operation with 1 battery : ~ 100 h
- ✓ Dimensions of electronics unit : 151mm × 82mm × 33mm
- ✓ Environmental protection : IP65
- ✓ Length of connection cable : 1.5m
- ✓ Weight of complete instrument : 340g

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## Description

The Ferro-master is a novel instrument made for easy measurements of the magnetic permeability  $\mu$  of weak magnetic materials and work pieces with  $\mu$  between 1.001 and 1.999. The permeability is measured by touching the work piece with the probe tip and reading the result from the display



## Application

- ✧ quality control of stainless steel.
- ✧ detection of material defects induced by stress
- ✧ material selection for electron-/ion-beam equipment and NMR equipments
- ✧ strong magnetism material detect
- ✧ Detect not the same direction material magnetism

The *Ferro-master* is calibrated to precise permeability standards which have been manufactured and calibrated by the National Physical Laboratory ( NPL, Teddington, UK ). For easy check of the calibration a calibration standard is supplied with each instrument.



In order to check the calibration the permeability probe is placed perpendicularly on the top of the standard so that the tip touches its center. The measured value should correspond with the number printed on.

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