



Application Note PE021

Testing the magnetization of weights..... 1

Testing the magnetization of weights

Weights for use with scales are made of different materials. In particular, weights of cast iron or steel may be magnetized by an external magnetic field.

For the maximum magnetization of weights, e.g. in the International Recommendation OIML R 111-1 and the standards based thereon DIN 8127 limits.

To measure the magnetization, our Teslameter FM 302 with the axial active probe AS-LAP is suitable. Instrument and probe are calibrated with traceability to the national standards of the Physikalisch-Technische Bundesanstalt.



Especially for these measurements, together with the State Office for Metrology and Calibration Berlin-Brandenburg, we have developed a handle for the AS-LAP probe. The handle is provided on its underside with a protective plate made of aluminum.



Testing the Magnetization of Weights

The advantages of the system

- defined distance between the surface of the weight and the active surface of the probe
- reproducible, right-angled orientation of the probe to the surface of the weight
- Protecting the probe from damage
- easy guidance of the probe for both small and large weights
- Display of measured values on the Teslameter FM 302 and readable via USB interface

