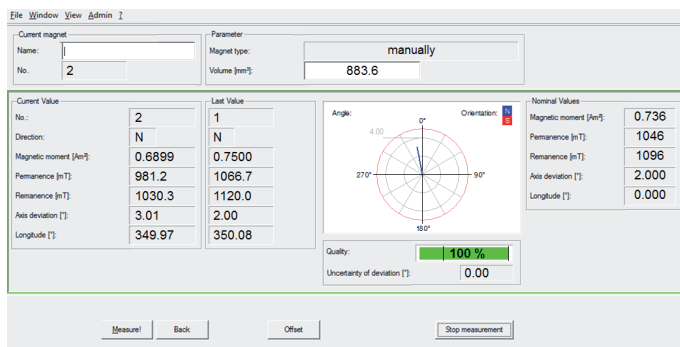


M-axis

Characterization of permanent magnet properties

M-axis is a high precision measuring device for the characterization of the magnetic characteristics of permanent magnets. Based on its modular design the M-axis device is able to measure near and far field magnetic properties.



Working principle

- Determination of open remanence B_r (also permanence)
- Magnetization angle measurement
- Graphical presentation of the size and orientation of the error angle
- Adapter for different magnet geometries
- Statistical analysis of parameters possible
- Automated storage of the determined parameters
- Integration of the system in existing manufacturing process and process automatism possible

Measurement principle

The method used in M-axis is based on the determination of the dipole properties of permanent magnet materials. In addition to the three-dimensional position of the magnet, the magnetic moment and the direction of magnetization are obtained.

Compared to Helmholtz coils (where magnetic flux changes are integrated) M-axis measures the induced magnetic field directly. As a result a single measurement can be performed much faster!

Technical features

- Magnetic moment: 0.01 Am² to 4 Am²
- Remanence: $\pm 1\%$
- Magnetization angle accuracy: $\pm 0.1^\circ$
- North/South-Effect (optional)
- Interface: USB
- Comprehensive measurement software
- Fast classification (up to 500 pcs/h)
- Power supply: 85 -264 VAC / 47 -63 Hz