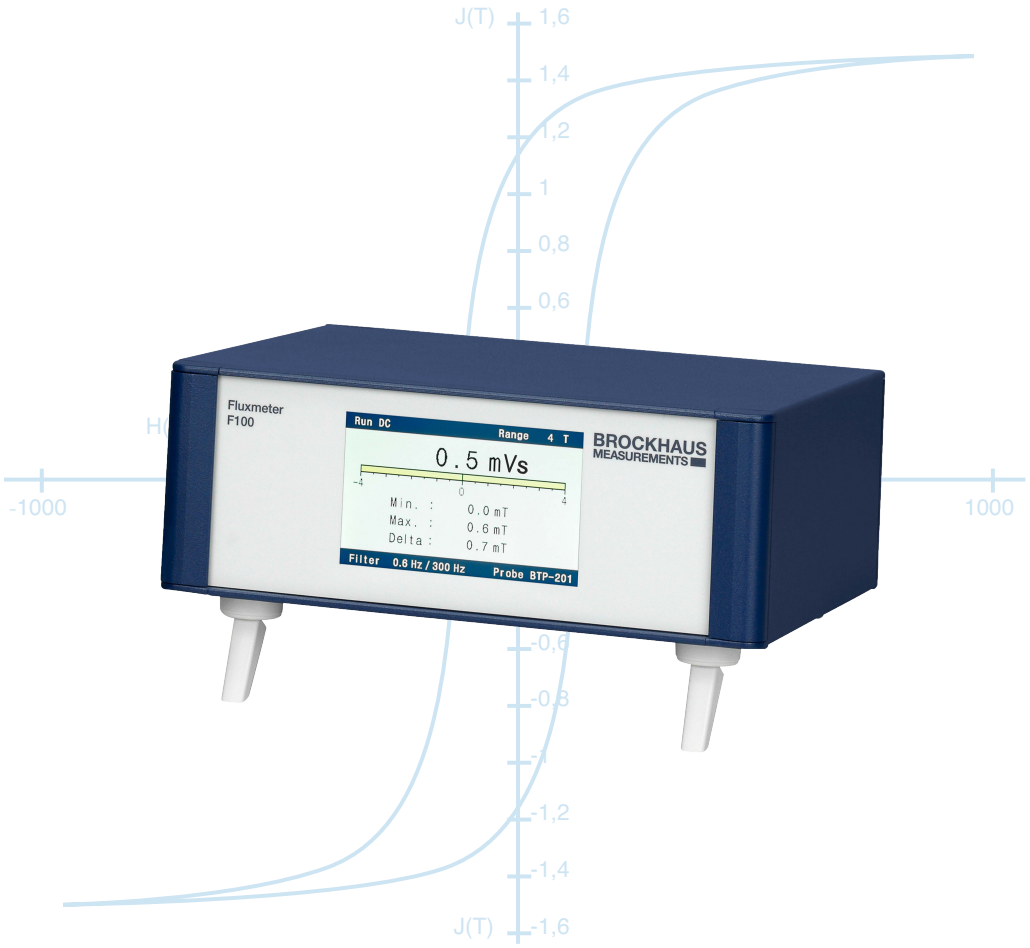
BROCKHAUS
MEASUREMENTS



- Analogue voltage integrator for measuring all quality-related magnetic parameters
- Integrated calibration device & comparator
- Automatic probe identification
- Selection of measuring units
- Self-testing function, peak value memory, analogue output
- Well-structured user interface
- Illuminated graphic display
- Colour touchscreen

Measuring categories

Magnetic flux

Magnetic flux density

Magnetic field strength

Magnetic moment

Magnetic potential

Polarization

Measuring Technology for Hard Magnetic Materials

Fluxmeter F 100

Fluxmeter F 100

Operating principle

For measuring all magnetic properties of magnetic material relevant to quality control.

Applications in e.g. research and development, automatic process control, quality control, and at incoming inspection.

When the flux density is changed a voltage is induced proportional to the change in flux. The Fluxmeter F 100 integrates this voltage and indicates the voltage integral.

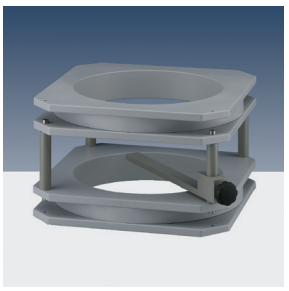
The self-calibrating function of the instrument ensures that the measurements are always accurate. Display of the measured values in a selection of scales: e.g. Tesla, A/m or Vs. In this way optimal use is made of the possible applications.

User-friendly features:

- Drift compensation
- Digital display filter
- Conversion of measuring scales
- Self-calibration
- Window comparator
- Percentage display
- Physical probe parameters saved in memory
- Automatic probe identification
- Choice of manual or automatic range
- Remote control via digital interfaces

Customer-specified probes also available.

Rear view



Helmholtz coil

Field coil

Potential coil

Technical Data

Measuring principle	Integrator with very low drift with 24 bit A/D-converter
Measuring range	500 µVs, 5, 50, 500 mVs
Resolution	maximum 0.1 µVs
Range selection	automatic, manually
Linearity error	<0,01 %
Repeatability error	<0,02 %
Input resistance	20 kOhm
Drift	<1 µVs per minute
Connections	Thermovoltage miniconnectors
Display	Easy to use colour touch display simultaneous display of user selectable results access control by password to prevent uncontrolled changed to configuration
Audible feedback	Integrated beeper for user feedback and alarms
Digital I/O (optional)	8 isolated digital Inputs and 8 isolated digital outputs
Analogue outputs (optional)	1 x galvanically isolated, ±10 V; 1 x configurable (average value, min/max, peak/peak, ±10 V)
Peak value memory	digital recording at intervals of 20 ms, connectivity analogue recording for high-speed pulses (optional)
connectivity	Ethernet Connectivity and complete API for remote operation • Standard RJ45 connector • Manual IP assignment or DHCP • Valid unique MAC address
Dimensions	120 x 250 x 250 mm (height x width x depth)
Mains Supply	210 – 250 V AC, 50/60 Hz

Other measuring systems

Hystograph
AC/DC Hystograph
Rotortester
Gaussmeter

Product divisions

Measuring Technology for Soft Magnetic Materials
Magnetizing Technology
Services

BROCKHAUS MEASUREMENTS

Dr. Brockhaus Messtechnik GmbH & Co. KG
Gustav-Adolf-Str 4 · D–58507 Lüdenscheid
Germany

Phone: +49 (0) 2351 3644-0
Fax: +49 (0) 2351 3644-44
measurements@brockhaus.com

WWW.BROCKHAUS.COM