M-Pulse
Magnetisiertechnologie

Measuring it all

Total flux integration

of permanent magnets

and magnet assemblies

■ Fluxmeter M-Flux 1000

Precise measurement:
· 0 Drift

· Resolution: 0.01µVs

· Accuracy ±1.0µVs

· Precise measurement of pulses up to 5kHz

Total human Interface:
· Easy to use by focus onto relevant features and displays

· Probe identification

· Automatic drift compensation

Smart technology:
· Setup of 1-3 channels

· Oscilloscope for pulsed fields

· Hugh variety of accessory

Fluxmetric Metrology

A Fluxmeter is an integrator of voltage. The physical principle of fluxmetric measurement is:

$$U_{ind} = d\phi/dt$$

$$\phi = \int U_{ind}\, dt$$

The measurement result equals to the flux ϕ through the measurement coil.
Different magnetic values such as Flux, Flux density, Field strength, Dipole moment or Potential can be measured by use of different measurement coils.

we make your products attractive

Technical Data

Measurement ranges	± 500µVs, ± 5mVs, ± 50mVs, ± 500mVs
Range selection	Automatically or manually
Accuracy	Repeatability ±1µVs absolute ±0,5% of Range maximum after self calibration
Magnetic Values	Magnetic Flux: Vs, Wb, Maxw Magnetic Flux density: T, G Magnetic Field strength: A/m, Oer Magnetic Dipole moment: Am2, Vsm Magnetic Potential: A
Measurement	DC, AC bis zu 2500Hz
Calibrator	Internal reference of voltage and time, Autocalibration
Drift	Standby: 0 µVs/min after dedrift Measurement cycle: < ±1µVs/min after dedrift
Input resistance	10kOhm ± 0.1%
Input terminals	Miniature connectors at front and rear panel
Display	LCD 240*65 Pixel, 127mm * 34mm Display size Black Graphic on white background LED 5-Digits Display
Dimension	105mm * 236mm * 256mm
Weight	3,0kg
Mains connection	230/115VAC ±10%, 50-60Hz

Interfaces

Analogue Output	±10V, Continuous output of displayed readings Peak (Min. Max. Diff.)
Serial Interface	RS 232C, SCPI Code, 9600 Baud, 115kBaud via USB
PLC	8 Inputs / 8 Outputs 24VDC, short current proof

Software functions

Automatic drift compensation	8 different Go/No Go - Comparators
Self calibration	Storage of probe parameter in probe EEPROM

Deliverable Accessories

Search coils	Probe connector plug with shielded cable, 2m long, for connection of self made coils to the fluxmeter. Built-in memory chip.
Helmholtz coils	Adaptor box with built in memory chip for the connection of probes with 4mm plugs (19mm distance). Length of connecting cable: 1m.
Potential coils	
Reference magnets	Mounting kit for assembly into 19" rack