

Fluxmeter M-FLUX X100



Fluxmetric Metrology

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

$$\mathbf{U}_{ind} = d\phi/dt$$

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

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.

Measuring it all!

- Total flux integration of permanent magnets and magnet assemblies with highest precision
- First principle method
- Setup of 1 3 channels
- Drift compensation
- A variety of customized measuring probes with automatic detection available





Total flux of rotors / stators

Magnetic dipole moment 1D / 3D



Technical Data:

Color touch display	Only available for desktop version!
	Easy to use colour touch display
	Simultaneous display of user selectable result
	Access control by password to prevent uncontrolled
	changed to configuration
Units	• Flux in Vs, Maxw, Wb
	Flux density in T, G, A/m, Oar
	Potential in A, Gb
	Dipole moment in Vsm, Am ²
	Temperature in C, K, F
	Angle (only 3-channel version) in Deg, Rad
Measurement	• Resolution: 0.01 μVs
	• Input resistance: 20 kΩ
	• Linearity error: < 0.01 %
	Repeatability error: < 0.02 %
	Selectable line frequency filter
	Selectable averaging filter
Measurement ranges	• 4 ranges: \pm 500 μ Vs, \pm 5 mVs, \pm 50 mVs, \pm 500 mVs
	Manual or automatic range selection
	Input signal up to 200 V independent of range
Dedrift	Ultra-low drift analog precision circuitry
	User selectable automatic dedrift
Comparators	Configurable comparators
Interfaces	Ethernet connectivity and complete API for remote operation
	Standard RJ45 connector
	Manual IP assignment for DHCP
	Optional 8 isolated digital inputs and outputs
Supply	Universal line input voltage range 85 V - 264 V, 47 Hz – 63 Hz
	integrated version 24 V DC



M-FLUX X100 as DIN rail version:

- Using magnetizers HMI
- Easy integration via Ethernet
- Clear O.K./ Not O.K. output
- 100% quality control in production

