

Measuring it all

Total flux integration
of permanent magnets
and magnet assemblies

全面测量

永磁性磁铁与
磁铁组立装置的
综合磁通测量

Fluxmeter e-Flux 磁通计 e-Flux

Precise measurement: 精密测量规格:

- 0 Drift
零数漂移
- Resolution: 0.01 μ Vs
分辨率: 0.01 μ Vs
- Accuracy: $\pm 1.0\mu$ Vs
精确度: $\pm 1.0\mu$ Vs
- Precise measurement of pulses up to 5kHz
脉冲测量精度速度可达 5kHz

Total Human Interface: 操作:

- Easy to use by focus onto relevant features and displays
人性化设计。操作简易。显示屏简单易懂
- Probe identification
可自动辨认不同类型探针
- Automatic drift compensation
系统可自动补偿漂移度。达到零漂移精度。

Smart technology 高端科技:

- Ethernet-Interface
Webserver: HTML / XML / CVS-Server
以太网接口, 可支持 HTML/XML/CVS-SERVER
- Setup of 1-3 channels
拥有高达三个输入信道



Fluxmetric Metrology 磁通度量衡

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

$$U_{\text{ind}} = d\phi / dt \Leftrightarrow \phi = \int U_{\text{ind}} dt$$

The measurement result equals the flux ϕ through the measurement coil.
This flux may be created by magnets, current coils, iron cores, etc.

Technical Data 详细的技术资料

Measurement ranges 测量范围	$\pm 400\mu\text{Vs}$, $\pm 4\text{mVs}$, $\pm 40\text{mVs}$, $\pm 400\text{mVs}$
Range selection 选择范围	Automatically or manually 自动或手动
Accuracy 精度	$\pm 1.0\mu\text{Vs}$ after self calibration 自动校准后 $\pm 1\mu\text{Vs}$
Sample rate 取样速度	Up to 50000 samples / sec. internally 30 samples / sec. to Ethernet / RS232 内部取样 50000 件/秒
Calibrator 校准测量器	Internal reference of voltage and time, Autocalibration 内部测量, 自动校准
Drift 漂移	Standby: $0\mu\text{Vs}/\text{min}$ after dedrift Measurement cycle: $< \pm 1\mu\text{Vs}/\text{min}$ after dedrift 漂移补偿后
Input resistance 输入电阻	$10\text{k}\Omega \pm 0.1\%$
Input terminals 输入接口	Miniature connectors at front and rear panel 小型接口。(前后各一)
Display 显示屏	LCD 16x2 Characters display 99mm x 24mm, 5 digits displayed, white green lit. LCD 16x2 字码显示, 99mm x 24mm, 五位数显示

Interfaces 界面规格

Analogue output 模拟输出口	$\pm 10\text{V}$, Continuous output of displayed readings Peak (Min. Max. Diff.) $\pm 10\text{V}$, 显示读数同步连续输出
Ethernet webserver 以太网接口	100MBit TCP-IP, HTML / XML / CVS-Server
Serial interface 串行接口	RS232C
PLC 程序逻辑控制系统	8 Input / 8 Output 24 VDC, short current proof 八输入/八输出 24 VDC, 反短路设计

Software Functions 软件系统

Automatic drift compensation 自动漂移补偿	Go / No Go tester 合格 / 不合格测试
Self calibration 自动校准	Storage of probe parameter in probe EEPROM 探针数据可储存于探针 EEPROM

Deliverable Accessories 其他配件

Search coils 探测线圈	Probe connector plug with shielded cable, 2m long, for connection of self made coils to the fluxmeter, Built-in memory chip 格类探针
Helmholtz coils 赫尔姆霍茨线圈	Adaptor box with built in memory chip for connection of probes with 4mm plugs (19mm distance). Length of connecting cable: 1m. 连接转换器
Potential coils 电位 / 电势测量线圈	
Reference magnets 基准磁铁	Mounting kit for assembly into 19" rack 19" 机架固定件