

ENABLING
MICROSCALE
RESEARCH



Field MicroProfiling System

One solution for field and laboratory use!

The new Field MicroProfiling System is the solution for your outdoor and laboratory microsensor research! Collect cores and samples for laboratory studies, or take the meter and motor outdoor to measure right where the action takes place.

With waterproof motor and sensor, splash proof meter and 5 m of sensor cable length, you now have the option to study in the field and at shallow water without worrying about protecting your setup against water and weather.

FIELD MICROSENSORS MULTIMETER

- Outdoor and water resistant system
- 8 channel amplifier with plug'N'play connector
- 5x pA, 2x mV and 1x Temperature
- 5 m sensor cables
- Built-in datalogger
- Export of data into SensorTrace Suite for data analysis

The **Field Microsensor Multimeter** comes with 8 channels for multi-analyte studies and/or replicate measurements.

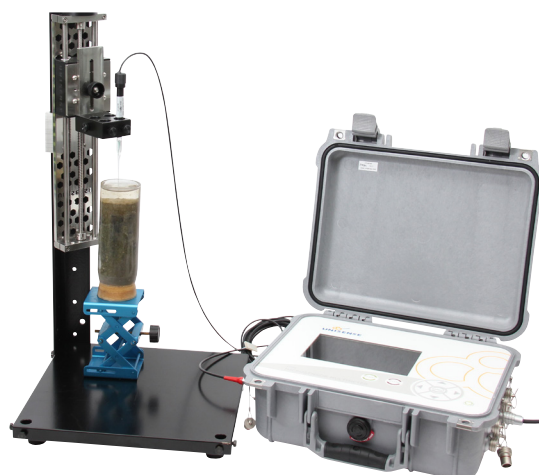
You get all the benefits known from our Microsensor Multimeter with easy sensor connection and sensor polarization, but now as a water resistant meter ready for outdoor use. Further benefits include built-in datalogger, motor control, Field MicroOptode Meter ready, internal rechargeable battery and robust design.

The **Field Motor** ensures stable positioning and handling of your microsensors with high spatial resolution for your microprofiling studies. The robust motor is made for the Field Microsensor Multimeter for automatic shallow water/wetland profiling.

Take all the benefits from your lab system with you into the field!

FIELD MOTOR

- Outdoor and waterproof motor
- 10 μm uni-directional step resolution
- Upgradeable to 2D-profiling
- Sensor mount for simultaneous profiling with up to 4 sensors
- 5 m sensor cables
- Mount on lab stand or in situ stand
- Operated via the Field Microsensor Multimeter



FIELD MICROSENSOR MUTIMETER

INPUT CONNECTOR

Sensor	Lemo - Splash Proof (IP68)
Reference (for mV channels)	Subcon plug on the cable of measuring electrode

AMPLIFIER

Types	Picoampere	pH/mV	Temperature
Number	5	2	1
Polarization	Digitally adjustable	N/A	N/A
Input range	$\pm 4500 \text{ pA}$ to $\pm 4.5 \text{ }\mu\text{A}$	$\pm 4500 \text{ mV}$	-10 - +100 °C
Input impedance (mV channels)	N/A	$> 10^{13} \text{ Ohm}$	N/A
A/D-Converter	16 bit, 10 kHz		

RESPONSE AND CONTROL

Response time (90%)	< 35 msec.
Signal gain factor adjustment	1-10
Control	Motors - up to 2 (z and x axis) Field MicroOptode Meter 3-serial RS-232/UART and I/O 4x digital 3.3 V

DATA ACQUISITION SOFTWARE

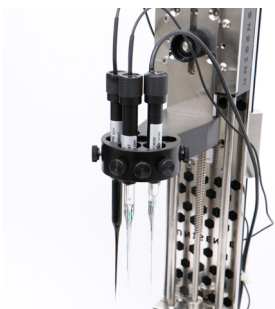
Field Multimeter Programming Tool	Included
SensorTrace Suite	Optional - Logging only or Profiling for analysis
Data rate	Up to 10 samples/sec.
Software data output	CSV file

SYSTEM

Display	Graphical 7" LED display 18 bit color / high contrast
Power Supply	Batteries - internal LiON - 13 Ah ~ 100 Wh External voltage 9V (5-28 V)
Internal Battery	Run time at 25 °C approx. 20 h at normal usage
External Battery (optional)	LiON 13 Ah, 100 Wh Add approx. 20 h of run time at 25 °C
Dimensions and weight	350x300x148 mm (W x D x H), approx. 8,5 kg (19 lbs)
Temperature range	Operating conditions -10 °C to 50 °C

FIELD MOTOR

Stage profiling length	200 mm
Step resolution (uni-directional)	10 μm
Sensor holder	Included - mount for 6 sensors
2D profiling	Optional
Stand for mounting	Field Stand or In Situ Stand (IS 19)



FOR MORE INFORMATION:

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