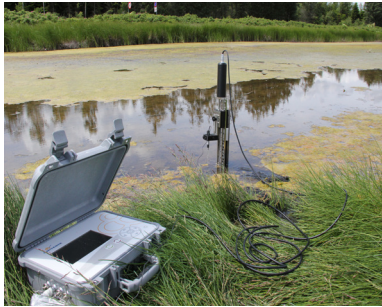


ENABLING  
MICROSCALE  
RESEARCH



## Field MicroProfiling System

One solution for field and laboratory use

The 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 outdoors to measure right where the action takes place. With waterproof motor and sensor, splash proof meter and 5 m of sensor cable length, you can study in the field and in 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 uSense Solutions for data analysis

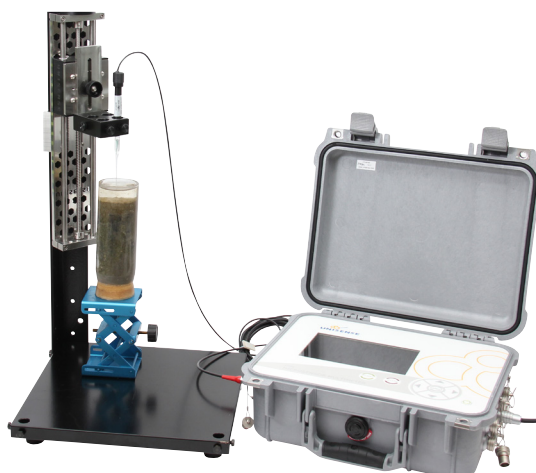
The **Field Microsensor Multimeter** comes with 8 channels for multi-analyte studies and/or replicate measurements. With easy sensor connection, sensor polarization, and water resistance, you get a meter that is well-suited for microsensor measurements in the lab and in the field. Further benefits include 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 or wetland profiling.

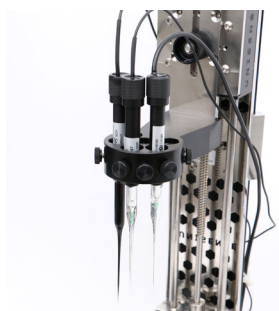
Take all the benefits from your lab system with you into the field!

### FIELD MOTOR

- Outdoor and waterproof motor
- 10  $\mu\text{m}$  uni-directional step resolution
- Upgradeable to 2D-profiling
- Sensor mount for simultaneous profiling with up to 6 sensors
- 5 m sensor cables
- Mount on lab stand or in situ stand
- Operated via the Field Microsensor Multimeter



FIELD MICROSENSOR MULTIMETER			
<b>INPUT CONNECTOR</b>			
Sensor	Lemo - Splash Proof (IP68)		
Reference (for mV channels)	Subcon plug on the cable of measuring electrode		
<b>AMPLIFIER</b>			
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		
<b>RESPONSE AND CONTROL</b>			
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		
<b>DATA ACQUISITION SOFTWARE</b>			
Field Multimeter Programming Tool	Included		
uSense Solutions	Optional - Log only or Profile for analysis		
Data rate	Up to 10 samples/sec.		
Software data output	CSV file		
<b>SYSTEM</b>			
Display	Graphical 7" LED display 18 bit color / high contrast		
Power Supply	Batteries - internal LiON - 13 Ah ~ 100 Wh External voltage 9 V (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 $\mu\text{m}$		
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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