

Maji-Meter

MULTIPARAMETER
WATER QUALITY MONITOR



Simultaneous measurement and
display of 11 parameters in ground
water and surface water applications

A SIMPLE TO USE, YET HIGHLY ACCURATE MULTIPARAMETER SYSTEM FOR COMPLETE WATER QUALITY ASSESSMENTS

MAJI-METER

The Maji-Meter is capable of measuring up to 11 parameters in the field simply by submerging the probe into a water course and using the control unit to run the test and view results.

Innovative sensor technologies combine with a durable and ergonomic design making the Maji-Meter simple to use, rugged, and easy to maintain in the field.

An integrated GPS system allows users to identify exactly where results were taken and record other location information, providing more informative analyses.

The Maji-Meter can be used to measure both surface and ground water in a variety of settings such as rivers, lakes, industrial systems, wells and bore-holes.

Maji-Meter Features

- » Easy to read LCD screen – clear display even in bright sunlight conditions
- » Integral GPS receiver for position tagging of readings – adds context to your results to facilitate environmental surveys
- » Built-in data logger - store 1900 results on the meter and then download these to a computer via USB
- » Simple to use, multilingual menu system – control all setup, calibration and test procedures
- » Shock resistant and waterproof casing



DISPLAY	80 Character FSTN LCD with backlight
DATA MEMORY	1900 full sets including GLP data
GPS RECEIVER	12 channels with integral antenna
GPS ACCURACY	± 10m in all 3 dimensions
ATMOSPHERIC PRESSURE	150mb - 1150mb ± 1mb
LANGUAGES	English / French / Spanish
PC INTERFACE	USB (cable provided)
POWER SUPPLY	5 x AA cells, Alkaline, or Ni-MH rechargeable
BATTERY LIFE	Alkaline >20 hours Ni-MH >40 hours
OPERATING TEMPERATURE	-20°C - +70°C
PROTECTION CLASS	IP67 (30 mins at 1m)
DIMENSIONS (W x H x D)	90mm x 180mm x 39mm (3.5" x 7" x 1.5")
WEIGHT (INCL. BATTERIES)	450g (15.9 oz)



MAJI-PROBE

Rugged construction - The Maji-Meter is built for outdoor use, the meter and probes are waterproof and the electrodes housed within a rugged protective sleeve.

Low maintenance - Pre-calibration comprises one step using a single calibration solution during regular field use. All calibration data is stored in the probe allowing for different probes and meters to be used together.

Innovative design - Multiple sensors allow for the simultaneous measurement of 11 parameters: Turbidity, dissolved oxygen, conductivity, total dissolved solids, resistivity, salinity, seawater specific gravity, pH, ORP & depth.

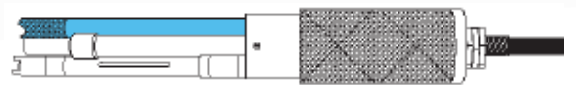
Maji-Probe Features

- » Various electrode configurations available – select the probe that is suited to your application
- » Resin filled and fully waterproof design
- » User replaceable dissolved oxygen membrane cap
- » Automatic temperature correction
- » Ultra-sensitive Nephelometric turbidity electrode system
- » With the exception of the pH/ORP electrode, which are replaceable, all electrodes are factory fitted and sealed for greater reliability

PROTECTION CLASS	IP68 (permanent immersion at 10m)
IMMERSION DEPTH	Min 75mm (3"), Max 10m (33')
OPERATING TEMPERATURE	-5°C - +50°C (23°F - 170°F)
DIMENSIONS (L x)	290mm x 42mm (11.4" x 1.65")
WEIGHT (INCL. CABLE)	725g (25.6oz)



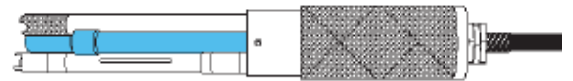
Conductivity, Dissolved Oxygen and Temperature electrode



A four ring variable frequency technique is used for conductivity with temperature automatically corrected to a 20°C or 25°C standard. A galvanic sensor which requires no polarization or warm-up time and is filled with a non-toxic environmentally safe electrolyte, measures dissolved oxygen.

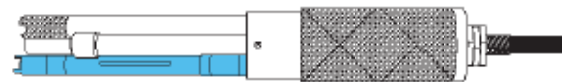
The WAG-WE51700 and WAG-WE5800 Maji-Probes feature a maintenance-free optical DO sensor.

Turbidity electrodes



The Nephelometric turbidity transmitter electrode emits a high energy, narrow beam of pulsed infrared light across the centre of the probe. Light scattered at 90° to the beam axis by suspended solids within the water is then collected by the turbidity receiver electrode on the other side of the probe.

pH/ORP electrode



Interchangeable resin bodied, gel filled combined pH and ORP electrode. All pH measurements are automatically corrected for temperature.

Depth sensor

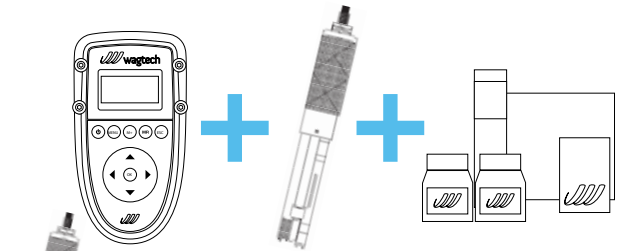
Some probe models feature an integral depth measurement sensor with 1cm resolution.

ORDERING INFORMATION

MAJI-METER

WAG-WES1000

Supplied complete with 5AA Alkaline Batteries, USB Cable, Instruction Manual, Maji-Ware Software, and a rugged carrying case with foam inserts for the Meter, Probe and Consumables



MAJI-PROBES

Probes are supplied with a 3 metre cable, 300ml calibration solution, rinse bottle, DO membrane kit and 25ml filling solution (where applicable), pH storage cap and 25ml storage solution (where applicable), and instruction manual.

			WAG-WES1800	WAG-WES1700	WAG-WES1600	WAG-WES1500	WAG-WES1400	WAG-WES1300	WAG-WES1200	WAG-WES1100
CONDUCTIVITY	RANGE	0 - 200 mS/cm (200,000 µS/cm)								
	RESOLUTION	3 Auto-range scales: 0 - 9999 µS/cm, 10.00 - 99.99 mS/cm								
	ACCURACY	± 1% of reading or ± 1 µS/cm if greater								
DEPTH	RANGE	0 - 30 m								
	RESOLUTION	0.01 m			-		-	-	-	-
	ACCURACY	± 0.1 m								
DISSOLVED OXYGEN (GALVANIC)	RANGE	0 - 500% / 0- 50.00 mg/L								
	RESOLUTION	0.1% / 0.01 mg/L	-	-						-
	ACCURACY	± 1% of reading								
DISSOLVED OXYGEN (OPTICAL)	RANGE	0 - 500% / 0- 50 mg/L								
	RESOLUTION	0.1% / 0.01 mg/L			-	-	-	-	-	-
	ACCURACY	±1% of reading (0-200%, 0-20mg/L) or ±10% (200-500%, 20-50mg/L)								
ORP	RANGE	± 2000 mV								
	RESOLUTION	0.1 mV							0	0
	ACCURACY	± 0.5 mV								-
pH	RANGE	0 - 14 pH / ± 625 mV								
	RESOLUTION	0.01 pH / ± 0.1 mV								-
	ACCURACY	± 0.01 pH / ± 0.5 mV								
RESISTIVITY	RANGE	5Ω cm - 1MΩ cm								
	RESOLUTION	2 Auto-range scales: 5 - 9999, 10.0 - 1000.0 KΩ cm								
	ACCURACY	± 1% of reading or 1 Ω cm if greater								
SALINITY	RANGE	0 - 70 PSU / 0 - 70 ppt (g/Kg)								
	RESOLUTION	0.1 PSU / 0.1 ppt								
	ACCURACY	± 1% of reading or 1 unit if greater								
SEAWATER SPECIFIC GRAVITY	RANGE	0 - 50 σ _t								
	RESOLUTION	0.1 σ _t								
	ACCURACY	± 0.1 σ _t								
TDS	RANGE	0 - 100,000 mg/L (ppm)								
	RESOLUTION	2 Auto-range scales: 0 - 9999 mg/L, 10.00 - 100.00 g/L								
	ACCURACY	± 1% of reading or ± 1 mg/L if greater								
TEMPERATURE	RANGE	-5°C - 50°C (23°F - 122°F)								
	RESOLUTION	0.1°C/F								
	ACCURACY	± 0.5°C								
TURBIDITY	RANGE	0 - 1000 NTU								
	RESOLUTION	2 Auto-range scales: 0.0 - 99.9 NTU, 100-1000 NTU						-	-	-
	REPEATABILITY	± 2% of auto-ranged scale								

* = STANDARD FUNCTION

-- = NOT AVAILABLE ON THIS PROBE

0 = OPTIONAL ORP ELECTRODE REPLACES pH ELECTRODE

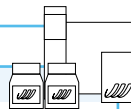
ADDITIONAL ACCESSORIES

WAG-WES1001	Heavy Duty Flow-Through Cell
WAG-WES1002	5m Extension Cable
WAG-WES1003	10m Extension Cable
WAG-WES1004	30m Extension Cable
WAG-WES1005	Galvanic Dissolved Oxygen Membrane Kit
WAG-WES1055	Optical Dissolved Oxygen Sensor Cap
WAG-WES1006	pH/ORP Electrode Storage Cap
WAG-WES1007	Replacement pH Electrode
WAG-WES1008	Optional ORP Electrode
WAG-WES1009	Combined pH/ORP Electrode



CALIBRATION & MAINTENANCE SOLUTIONS

WAG-WES1050	300ml Calibration Solution
WAG-WES1052	600ml Calibration Solution
WAG-WES1054	300ml pH7.00 Buffer
WAG-WES1056	600ml pH7.00 Buffer
WAG-WES1058	300ml pH4.01 Buffer
WAG-WES1060	600ml pH4.01 Buffer
WAG-WES1062	150ml Zero Oxygen Solution
WAG-WES1064	600ml Zero Oxygen Solution
WAG-WES1066	25ml Dissolved Oxygen Filling Solution
WAG-WES1068	25ml Storage Solution
WAG-WES1070	Calibration/Rinse Bottle



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