



OPERATION Analytical principle: Anodic & Cathodic stripping voltammetry using disc working electrodes Parameters measured: Arsenic (III), Total Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel & Zinc Operating Temperature: -20°C to +70°C DATA Results obtained in 5 minutes Internal memory, 1000 data sets with facility to enter sample number, time and data Transfer via USB to PC New application methods can be uploaded to the unit via USB USER INTERFACE LCD full graphics backlit display: 128mm x 128mm Joystick cursor control Menu driven software POWER Rechargeable battery providing in excess of 50 tests per charge Alternative power supply via mains adaptor or vehicle digarette lighter APPROVALS Waterproof to IP67 CE Mark KIT Dimensions: 470mm (L) x 370mm (W) x 170mm (D) Net Weight: 9kg

LIMITS OF DETECTION (FRESH WATER)

Parameter		Lower Limit (ppb)·	Upper Li	mit (ppb)	WHO Guide	lin∈ Value (ppb
Arsenic (III)	As (III)	5	4	50	0	N.	<10
Total Arsenic	As (Total)	10		50	0		<10
Cadmium	Cd			50	10		ব্য
Chromium	Cr	50		50	10		<50
Copper	Cu	5		50	0		<2000
Lead	Pb			50	0		<10
Manganese	Mn	5		20	10		<100
Mercury	Hg	5		50	0		<6
*Nickel	NI	50	100	50	0		<70
Zina	Zn			50	10		<4000

ORDERING INFORMATION

HM1000 - Metalyser Portable Complete with Sonde assembly, electrodes, consumable kit and buffers and standards for 50 tests. Supplied in a hard-shell carry case.

Consumable

- HMC301200 M1, M4 & M5 Buffer and Standards Pack for 200 tests (Cd, Pb, Cu, Zn)
- HMC302200 M2 Buffer and Standards Pack for 200 tests (Hg)
- HMC303200 M3 Buffer and Standards Pack for 200 tests (As)
- HMC306200 M6 Buffer and Standards Pack for 200 tests (Mn)
- HMC307200 M7 Buffer and Standards Pack for 200 tests (Cr)
 HMC308200 M8 Buffer and Standards Pack for 200 tests (Ni)

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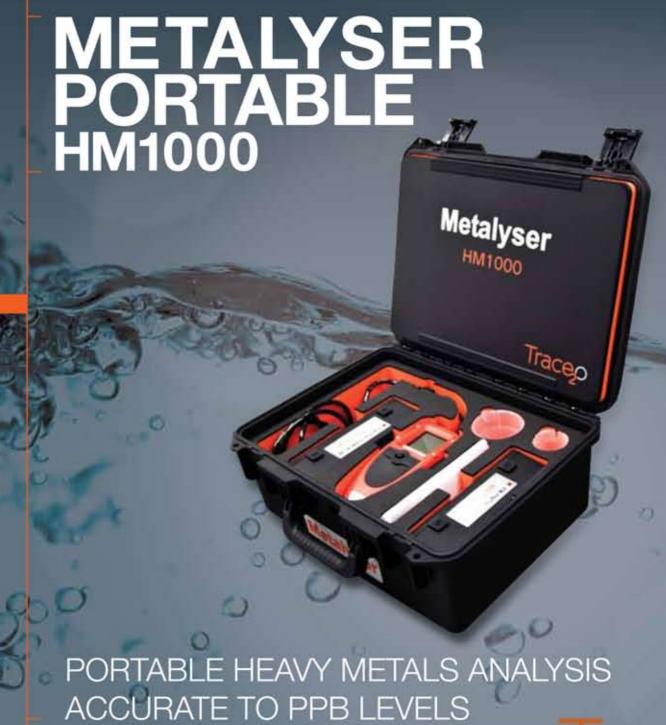


reposition increased accuracy can be achieved by setting it deposition increased accuracy can be achieved by setting it deposition time to 120 second

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Traces



Contamination of our water resources by toxic heavy metals is becoming an increasing problem the world over. Widespread industrial and urban pollution is responsible for introducing these heavy metals into the environment. This problem is particularly acute in the developing world where unchecked industrial growth, lack of monitoring facilities and failure to enforce environmental regulations only serve to add to the severity of the situation.

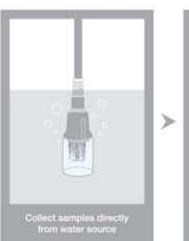
The Metalyser HM1000 has been designed specifically to allow easier, cost-effective monitoring of heavy metals most commonly associated with health and environmental problems.

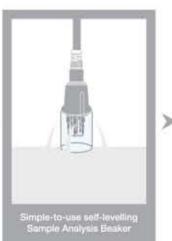
Developed and manufactured solely in the UK, the Metalyser offers a breakthrough in terms of a simple-to-use field instrument that offers high levels of accuracy at an attractive price.

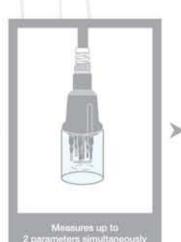
Analysis of heavy metals in water has traditionally been difficult in the field. By combining the proven method of Anodic Stripping Voltammetry (ASV) along with an innovative sonde design and a simple buffer delivery system, Trace₂o has developed an instrument that can finally deliver reproducible results on site.

The design of the Metalyser allows for the addition of future parameters, without the need to upgrade the instrument. 10 of the more common parameters are currently available for analysis using the HM1000.

SIMPLE ANALYSIS









BENEFITS

- Field based detection of heavy metals in water to low ppb concentrations providing data at site
- Rapid results allowing immediate action on remediation
- No complicated sample preparation or analysis procedures in the field allowing non-technical personnel the ability to gain lab-comparable results
- Step-by-step pictorial guides allowing non-experienced personnel the ability to use the instrument quickly and easily without reading in-depth manuals
- Low cost per test
- No PC required for sample analysis
- Rugged and durable instrumentation built for tough environments allowing operation even in adverse weather conditions
- Ability to measure 10 parameters As (total), As (III), Cd, Cr, Cu, Pb, Hg, Mn, Ni, Zn

FEATURES

- Robust, dustproof and waterproof design to IP67 standard
- User removable electrodes
- Internal data logger with memory for 1000 results
- USB connectivity
- Windows based analysis software
- LCD graphical display
- Joystick cursor control
- Multiple power options rechargeable battery/ mains AC/ vehicle cigarette lighter socket
- Integral self-levelling Sample Analysis Beaker (SAB)
- Software expandable for further parameters

SONDE

The uniquely designed submersible sonde utilises the familiar three electrodes system, comprising reference, counter and working electrode.

In addition, the sonde incorporates a stirrer, temperature probe and space for an extra two working electrodes. This allows multi-parameter measurement within a single unit, without the use of a computer.

The intelligent unit (capable of storing 1000 results) will select the electrode accordingly for the metal of interest.

- Maintenance-free electrodes
- Push fit removable electrodes
- Integral temperature sensing
- Up to 3 working electrodes in one sonde



