



The Business of Science®

X-MET8000

EXPERT GEO



SOIL

The tool of choice for fast,
on-site environmental screening



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The X-MET8000 Expert Geo is a versatile handheld X-ray fluorescence (HHXRF) analyser that provides rapid on-site environmental soil and sediment screening.

Heavy metals such as Lead (Pb), Cadmium (Cd) and Mercury (Hg) occur naturally in the earth's crust. They have been used for years in many applications, from industrial to agricultural and domestic, which sometimes results in them being concentrated in specific geographical areas, such as old industrial and mining sites. Exposure to these heavy metals and other pollutants can be detrimental to human health, even at low levels. This means that their use is now widely restricted, with many countries around the world having stringent rules and regulations in place to limit exposure.

For example, the soil in sites to be used for residential and recreational developments (e.g. playgrounds) must be tested for contents of toxic metals. If the levels found are above the regulated limits, a soil remediation plan must be put in place before any development work can be undertaken. Another example is the assessment of agricultural land that must be carried out prior to growing food crops to ensure food safety.

The **X-MET8000** Expert Geo from Oxford Instruments has been designed to meet today and tomorrow's environmental testing challenges. It is portable, easy to use, and helps dramatically reduce the need for laboratory analyses and their associated cost, making it the tool of choice for soil analysis professionals.



WHY CHOOSE THE X-MET8000 EXPERT GEO?

SPEED



Outstanding performance: results you can trust in seconds.

RUGGED & DURABLE



Proven ruggedness and reliability: the **X-MET** won't let you down.

DATA MANAGEMENT



Real-time data sharing for fast decision making



OXFORD
X-MET
8000
Expert GEO

SUPERIOR PERFORMANCE FOR HIGH TESTING THROUGHPUT

Our large area silicon-drift detector (SDD) and revolutionary BOOST™ technology provide up to 10 times the sensitivity of other handheld XRF models, delivering the low limits of detection required to measure critical elements (e.g. US EPA Method 6200 RCRA metals) accurately time after time.

The **X-MET8000**'s speed means you can carry out high volumes of analyses and complete testing programs quickly, and identify contaminants hotspots on site, saving you time and money.

With **X-MET8000 Expert Geo** you can measure up to 40 elements, to meet your current and future testing requirements (extra elements can be added on request). It is possible to create empirical calibrations tailored to your specific requirements (e.g. liquids analysis) without having to return the analyser to the factory. A blank sample and a certified soil check sample are provided with the **X-MET** to ensure measurement traceability and accuracy.



WITH BOOST™ TECHNOLOGY



Rugged for low cost of ownership

The **X-MET8000** is designed to withstand the harshest environments and weather conditions: it is **IP54 compliant** (equivalent to NEMA 3) for superior protection against dust and water and has been tested to **MIL-STD-810G** military standard for ruggedness. It features a large heat sink for optimum stability, even in hot environments (no need to wait for detector cooldown between analyses) and comes with a compact, rugged and waterproof case for transportation and storage.

Advanced data management in the palm of your hand

Data management with the **X-MET8000** is very versatile: you can store up to 100,000 results on the analyser, download them to a USB stick or PC in CSV format or tamper-proof PDF for ultimate data integrity. You can print results on-site on a portable Bluetooth printer and attach them to sample bags to avoid mix-ups. Alternatively you can create fully customised reports using the **X-MET** report generator. Sharing results on-the-go with clients or colleagues is easy with the **OiConnect** app, and the **OiConnect** cloud service enables you to export results securely in real-time, and access them anytime anywhere. You can even manage results from a whole fleet of **X-METs** with a single **OiConnect** account.



Easy to use

With its intuitive user interface and proven 'point and shoot' simplicity, you only need minimal training to operate this analyser. Its large 4.3" colour touchscreen provides excellent results visibility even in direct sunlight. It is icon-driven for easy operation and can be used with gloves on. The **X-MET8000** features a quick-swap analysis window, so you don't need a tool to change the window if broken or dirty. The screen is customisable for fast decision making: you can list elements in your preferred order, include pass/fail messages, user-defined compounds or calculations. Ergonomic and lightweight (1.5kg with battery), the **X-MET** can be used for a long period of time without getting tired, and its 10–12 hours of battery life ensures uninterrupted workflow. A comprehensive range of accessories is available to make testing even easier.

GPS/GIS integration

The **X-MET** integrated GPS enables you to combine geolocation data with analyses results for flawless site mapping. When more accurate location data is required, the **X-MET** also works with Trimble® receivers.

OPTIONAL ACCESSORIES

X-MET pole

For hard-to-reach analysis places and improved measurement ergonomics when a wide area needs testing.



Bipod

No need to hold the analyser in place during long testing times.



Benchtop stand

Converts the **X-MET** into a benchtop analyser to increase analyses throughput for samples in bags or cups.



OiService®



The Business of Science®

We're here to help you

OiService aims to keep your **X-MET** working as hard as you do. Our global network of service hubs provides a full range of technical support:



Telephone help-desks

For a fast response to your problem.



Online diagnostics

In-depth support over the internet.



Rental instruments

To keep you working if your analyser is not.



Recertification and maintenance

Ensures your analyser produces the right result year after year.



Training

Understand your analyser and its features.



Extended warranties

Avoid unplanned costs.



Consumables and accessories

From spare batteries to benchtop stands.



Repairs

Fast and efficient turnaround.

WHAT NEXT?



Put the X-MET8000 Expert Geo to the test.

The X-MET8000 Expert Geo delivers reliable results in seconds. It is built to last and its rugged design will withstand the harshest conditions. Easy to use with a long battery life, the X-MET is an analyser that won't let you down.

The tool of choice for fast, on-site environmental screening.



MORE INFORMATION

Visit www.oxford-instruments.com/geo-soil
or contact one of our experts soil@oxinst.com

Oxford Instruments: providing solutions to the soil industry.



X-Supreme: benchtop XRF analyser for process and quality control.



X-MET8000 Expert Geo: for rapid field analysis.



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