

## Model UCG

### ON-BELT ELEMENTAL ANALYSER FOR MINERALS



#### GEOSCAN-M Applications

Real time elemental analysis provides active control over ore and concentrates quality, with timely information on various elements to make decisions that optimises process control, maximises the value of the resource and minimises operating costs.

#### GEOSCAN-M Technology

GEOSCAN incorporates a proprietary detector array giving a better spectrum by allowing simultaneous detection in the individual detectors. This compound array overcomes the limitations of conventional, low efficiency detection systems. The GEOSCAN spectrometer can operate at much higher count rates than conventional systems, with lower pulse pile-up.

This innovation vastly improves the signal to noise ratio and spectral peak resolution.

#### GEOSCAN-M Model UCG Advantages

- Ultra-compact design. Uses only one metre of belt space and installs between standard idlers.
- State-of-the-art technology;
- Suits most belt sizes and loads;
- No contact with the material or the conveyor belt;
- No sampling necessary during normal operation;
- Low maintenance cost;
- No wearing parts;
- Optional customised software output using SuperSCAN;
- Interface to a wide range of process control systems;
- Remote and local technical support.



## GEOSCAN-M Model UCG Description

The GEOSCAN-M Elemental Analysis System is a compact, fully integrated, single IP65 rated enclosure, which is installed on the conveyor and monitors the full flow of ore and concentrates, without the need for routine samples to be taken and analysed. The GEOSCAN-M provides real time information, with updates typically every two minutes, as well as cumulative averages for the current hour, shift or shipload.

Typical elements analysed are Calcium, Silicon, Aluminium, Copper, Zinc, Nickel, Iron, Potassium, Titanium, Manganese, Sulphur, Chlorine, Magnesium and Sodium. This premium technology provides real time analysis of the important quality parameters for process control. The analyser is fully contained in the single, heavily shielded enclosure that contains the radioactive source, gamma-ray detection assembly and all electronics. Industry standard communication outputs are available for interface with any plant control system or with Scantech's SuperSCAN output display system installed in any suitable remote location.



## Scantech's Analysers

SCANTECH provides the energy, mining, coal and cement sectors with analysers for a wide range of situations and environments. We can deliver the online solution that suits your process and reduces your operating costs. Whether you want to monitor moisture, ash, sulphur, mineral or energy content we have the right application for your needs and budget.

Real time analysis during the various phases of resources production provides operators with significant opportunities for plant optimisation and quality control. Over the past two decades online analysers have become a standard process control tool in the resources industry. Recent scientific and computing innovations now offer considerable performance and operational improvements in current generation analysers. SCANTECH is a leading provider of this technology and with our experienced R&D staff we make sure our customers will benefit from improvements and new developments.

This analyser has proprietary patented technology covered by patents and patent applications.

## List of Scantech Products

- COALSCAN Model 1500 On-belt Natural Gamma Ash Monitor
- COALSCAN Model 2100 & 2800 On-belt Ash / On-belt Ash and Moisture Monitors
- COALSCAN Model 9500X On-belt Elemental Analyser for Coal
- GEOSCAN™ On-belt Elemental Analyser for Cement or Minerals
- TBM 200 Series On-belt Microwave Moisture Monitor
- CIFA Model 350 Carbon In Fly Ash Monitor
- CM Model 100 On-belt Conductive Material Moisture Monitor
- IRONSCAN Model 1500 On-belt Natural Gamma Iron Ore Monitor
- MINERALSCAN Model 1500 On-belt Natural Gamma Minerals Monitor

## Specifications

Dimensions & Weight	
Length	1.00 m
Width	2.15 m
Height	1.65 m
Weight	2000 kg approx. (Plus 1,200kg for shield extensions)
Specifications subject to change without notice.	

## REPRESENTATIVE



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