

SLURRY ELEMENTAL ANALYSER FOR MINERALS



GEOSCAN-Y 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-Y 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-Y Advantages

- Ultra-compact design. Installs between pipe supports;
- Industry-leading proven performance;
- Operational at completion of commissioning;
- Customised calibrations;
- Suitable for pipes up to 550mm outside diameter;
- Suitability subject to solids concentration;
- Ideally suited to horizontal pipes;
- Requires short section of suitable pipe;
- No sampling necessary during normal operation;
- No wear parts = low maintenance;
- Optional customised SUPERSCAN console;
- Interface to most process control systems;
- Proven short paybacks in many applications (bulk diversion, blending, monitoring, feed forward, etc) to optimise plant performance.

GEOSCAN-Y Description

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

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.



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Scantech's Analysers

Scantech provides the recycling, energy, mining, coal, steel and cement sectors with analysers for a wide range of applications and environments. Scantech can deliver online solutions that suit your process, reduce your operating costs and minimise Health, Safety and Environmental risks for your operations. Whether you need 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 production provides operators with significant opportunities for plant optimisation and quality control. Over the past four decades, Scantech analysers have become a standard process control tool in the resources and recycling sectors. Scantech analysers are a fundamental component of companies' digital technology strategies utilising real time measurement systems to enable core processes to become fully integrated, autonomous, remote and automated.

Scantech Products have Patented Technology & Registered Trademarks

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Scantech Products

- GEOSCAN GOLD Premium On-belt Elemental Analyser for Minerals
- GEOSCAN-M On-belt Elemental Analyser for Minerals
- IRONSCAN 1500 On-belt Natural Gamma Iron Ore Analyser
- MINERALSCAN 1500 On-belt Natural Gamma Minerals Analyser
- MINERALSCAN 2100 On-belt Density Analyser
- ReadMoist CM 200 On-belt Conductive Material Moisture Analyser
- GEOSCAN-R On-belt Elemental Analyser for Recycling
- ReadMoist TBM 280 Through Bale Moisture Monitor
- ReadMoist CM 200-R On-belt Conductive Material Moisture Analyser for Recycling
- BALZSCAN 9500X On-belt Elemental Analyser for Alternative Fuels
- BALZSCAN 2100 On-belt Ash Analyser for Alternative Fuels
- ReadMoist TBM 280 Through Bale Moisture Monitor for Alternative Fuels
- GEOSCAN-C On-belt Elemental Analyser for Cement
- BLENDSCAN Process Control for the Cement Industry
- ReadMoist TBM 260 Through Bin Moisture Analyser for Concrete
- GEOSCAN-S On-belt Elemental Analyser for Steel
- ReadMoist CM 200-S On-belt Conductive Material Moisture Analyser for Steel
- COALSCAN 9500X On-belt Elemental Analyser for Coal
- COALSCAN 1500 On-belt Natural Gamma Ash Analyser
- COALSCAN 2100 On-belt Ash Analyser
- CIFA 350 Carbon in Fly Ash Analyser
- ReadMoist TBM 210/220/230/240 Through Belt Moisture Analysers
- ReadMoist TBM 260 Through Bin Moisture Analyser
- SIZESCAN Particle Size Distribution Analyser

Specifications

Dimensions & Weight

Length	1.00 m
Width	2.24 m
Height	2.04 m
Weight	2500 kg approx.

(Plus 1,200kg for shield extensions)

Specifications subject to change without notice.

Details shown for standard model. Large and Extra-Large sizes available.