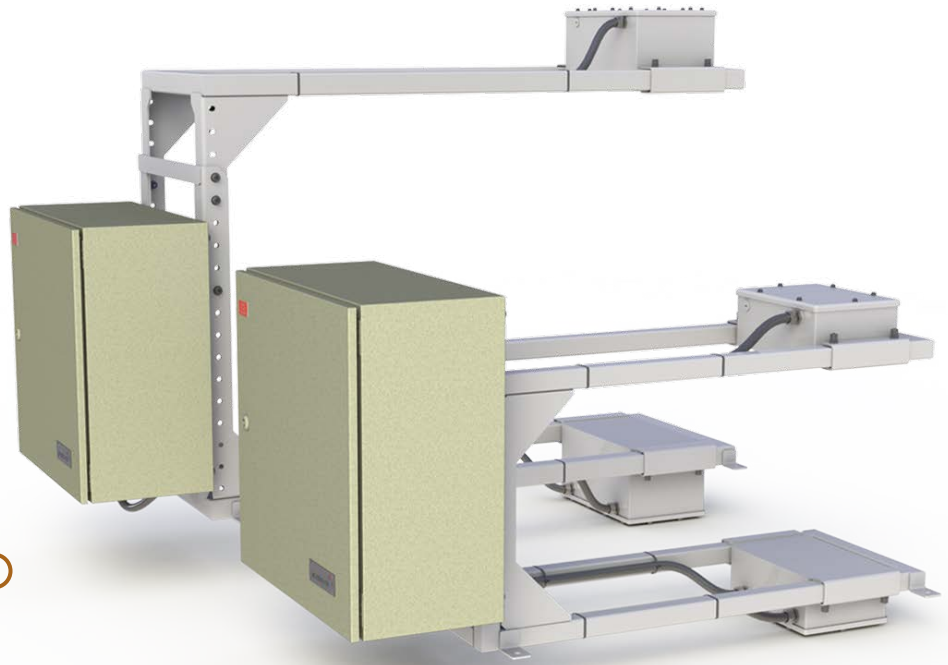


# TBM 210/220/ 230/240

## THROUGH BELT MOISTURE ANALYSERS



### TBM Advantages

- Simple and inexpensive installation;
- Simple and quick calibration process;
- No effects from vertical segregation;
- No errors from surface anomalies;
- Results independent of changing tonnage rate;
- Non-contact - no wear components;
- Minimum maintenance;
- Enables quick responses to changing conditions;
- No costly sampling programs during normal operation;
- No regular operator input required
- Simple interface to all plant control systems;
- Rugged, long-lasting design;
- Stainless steel options;
- Multiple models to optimise performance;
- Does not require a licence;
- Optional installation frame (drill-free installation);
- Integrates with Scantech ash, elemental or natural gamma analysers (TBM220/240 models).

### TBM Applications

Real time analysis of moisture in a wide range of process materials allows active control over product quality, with timely information to make decisions that maximise the value of the product and minimise operating and maintenance costs.

Typical applications include:

- Analysis of product to control de-watering circuits and dryer settings, thus reducing processing costs and optimising handling characteristics;
- Dust suppression system control;
- Analysis and blending control during reclaim from stockpiles to ensure quality targets are met and to minimise handling problems in transport, chutes and transfer points;
- Monitoring feed moisture into a process; dry tonnage values, chemical dosing control;
- Analysis of materials on delivery, to monitor contract compliance and optimise inventory management.
- Agglomeration and pelletising control.

# TBM 210/220/230/240

## TBM Description

Microwaves are transmitted through the belt and the process material. Unlike reflection-based technologies, the beam fully penetrates the bed, so there is no impact from vertical segregation. The monitor uses a combined group delay and attenuation technology to determine moisture content. The technology operates on both fabric and steel cord belts. Measurements are independent of lump size and belt speed. The TBM automatically adjusts for changing flow rates on the belt, using an adjacent belt scale or optional integrated bed depth monitor. Scantech will advise on the best model to suit individual applications.

Features are:

- Fits directly around the conveyor belt;
- Beam passes completely through the material;
- Fully automatic bed depth compensation;
- Pre-aligned and factory tested unit in single robust frame;
- No contact with the conveyor belt or process material;
- Rapid "online" results;
- Fully automatic operation;
- Industry standard outputs;
- Optional full stainless steel finish;
- No radiation source;
- DIP Zone 22 compliant option.



## 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 three 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

## 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
- CM 200 On-belt Conductive Material Moisture Analyser
- GEOSCAN-R On-belt Elemental Analyser for Recycling
- TBM 280 Through Bale Moisture Monitor
- 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
- TBM 280 BaleScan Through Bale Moisture Monitor for Alternative Fuels
- GEOSCAN-C On-belt Elemental Analyser for Cement
- BLENDSCAN Process Control for the Cement Industry
- TBM 260 Readimoist Through Bin Moisture Analyser for Concrete
- GEOSCAN-S On-belt Elemental Analyser for Steel
- 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
- TBM 210/220/230/240 Through Belt Moisture Analysers
- TBM 260 Through Bin Moisture Analyser
- SIZESCAN Particle Size Distribution Analyser

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