

# TBM

## 200 Series

### ON-BELT MICROWAVE MOISTURE MONITOR



#### TBM 200 Series Applications

Real time analysis of moisture in a wide range of process materials provides 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 dewatering circuits and dryer settings, thus reducing processing costs and optimising handling characteristics;
- Monitoring and controlling dust suppression systems;
- Analysis and blending control during reclaim from stockpiles at delivery points, to ensure quality targets are met and to minimise handling problems in transport, chutes and transfer points;
- Monitoring feed moisture into a process, to control chemical dosing;
- Analysis of materials on delivery, to monitor contract compliance and optimise inventory management.

#### TBM 200 Series Advantages

- Simple and inexpensive installation
- No effects from vertical segregation
- No errors from surface anomalies
- No time consuming, tedious alignment on site
- Results independent of changing tonnage rate
- No costly wear components
- Minimum maintenance
- No interference with material flow or belt operation
- 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
- Aggressive plant conditions
- Does not require a licence.

# TBM

## 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 that 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.



## TBM 200 Series 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 200 Series automatically adjusts for changing flow rates on the belt, using an adjacent belt scale or 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
- Meets IP65 rating for dust and moisture protection
- Optional full stainless steel finish
- No radiation source

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

## REPRESENTATIVE



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