

# CM 100

## ON-BELT CONDUCTIVE MATERIAL MOISTURE ANALYSER



### CM 100 Applications

Real time quality data provides active process control, with timely information on moisture to make decisions that optimise the process and minimise operating costs. The Conductive Materials Moisture Monitor system is designed for ease of installation adjacent to a conveyor belt. The monitor does not touch the material or the conveyor belt and does not require samples to be taken during normal operation.

Typical applications include:

- Improved plant blast furnace temperature stability;
- Optimisation of blast furnace output;
- Improved slag silica: iron ratio;
- Improved plant efficiency;
- Reduction in coke consumption;
- Suitable for coke, iron ore, sinter, and other conductive materials.

### CM 100 Advantages

- State-of-the-art-technology;
- Low investment and maintenance costs;
- Configured to suit any belt size and load;
- No contact with the material or the conveyor belt;
- No sampling necessary during normal operation;
- Optional customised software output using SUPERSCAN;
- Local technical support;
- Remote technical support.

## CM 100 Description

The determination of moisture in materials involved with production processes is vitally important, particularly in the steel and smelting industries. Sampling and laboratory facilities are expensive to operate and maintain, and yield results which can be many hours old, so do not represent current operating conditions. Online real time moisture measurement results are generated minute by minute, providing major benefits. The feed to a blast furnace should be optimised using dry weights.

However, due to the production and storage methods employed, coke, conductive or magnetic materials, or concentrates can be delivered at a variety of moisture contents. To date, the accurate measure of moisture in those materials has not been possible directly on the conveyor belt. Operators may make continuous adjustments to compensate for the moisture content, ensuring an accurate dry weight charging of the blast furnace. Coke and metal concentrates have conductive properties, and also highly magnetic materials, are not suitable for traditional methods of on-line microwave moisture measurement techniques.

## 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 three decades online analysers have become a standard process control tool in the resources sector. Recent scientific and computing innovations now offer considerable 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.

## Scantech Products

- COALSCAN 1500 On-belt Natural Gamma Ash Analyser
- COALSCAN 2100 On-belt Ash / On-belt Ash and Moisture Analyser
- COALSCAN 9500X On-belt Elemental Analyser for Coal
- GEOSCAN On-belt Elemental Analyser for Cement or Minerals
- Readimoist Through Bin Moisture Analyser
- SizeScan Particle Size Distribution Analyser
- TBM Series On-belt Microwave Moisture Analyser
- CIFA 350 Carbon In Fly Ash Analyser
- CM 100 On-belt Conductive Material Moisture Analyser
- IRONSCAN 1500 On-belt Natural Gamma Iron Ore Analyser
- MINERALSCAN 1500 On-belt Natural Gamma Minerals Analyser

## Specifications

### Dimensions & Weight

Length 0.83 m

Width 1.50 m

Height 2.40 m

Weight 1450 kg

(with electronics control cabinet)

Specifications subject to change without notice.



Scantech Products have Patented Technology & Registered Trademarks

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### REPRESENTATIVE

