

CM

Model 100

ON-BELT CONDUCTIVE MATERIAL MOISTURE MONITOR



CM Model 100 Applications

Real time quality data provides active process control, with timely information on moisture to make decisions that optimises the process and minimises 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 coke 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 Model 100 Advantages

- State-of-the-art-technology;
- Low investment and maintenance costs;
- Configured to suit any belt size and load;
- Does not touch the material or the conveyor belt;
- No sampling necessary during normal operation;
- Optional customised software output using SuperSCAN;
- Local technical support;
- Remote technical support.

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CM Model 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 gives results only minutes old, 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 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 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 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.

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



ADELAIDE OFFICE

PO Box 64 Unley
South Australia 5061
AUSTRALIA
Tel: +61 8 8350 0200
Fax: +61 8 8350 0188

BRISBANE OFFICE

PO Box 458 Salisbury
Queensland 4107
AUSTRALIA
Tel: +61 7 3710 8400
Fax: +61 7 3275 3964

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 1.40 m

Width 1.50 m

Height 2.40 m

Weight 1450 kg

(with electronics control cabinet)

Specifications subject to change without notice.

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