

CM 100-S

ON-BELT CONDUCTIVE MATERIAL MOISTURE ANALYSER



CM 100-S Applications

Real time quality data allows 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 blast furnace temperature stability;
- Measuring moisture in sinter, smelter and furnace feeds;
- Controlling feed blends on dry weight basis;
- Improving furnace feed chemistry e.g. C:Fe;
- Improved slag silica: iron ratio;
- Suitable for coke, iron ore, sinter and other conductive materials.

CM 100-S 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;
- Improving plant efficiencies;
- Optimising coke consumption;
- Lower energy costs;
- Prolong the life of refractory lining;
- Reduction in coke consumption.

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CM 100-S 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, and other conductive or magnetic materials, may not be suited to moisture analysis using other techniques, such as microwave-based or surface analysis systems.



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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 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

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Scantech Products

- **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**
- **CM100 On-belt Conductive Material Moisture Analyser**
- **GEOSCAN-R On-belt Elemental Analyser for Recycling**
- **TBM 280 Through Bale Moisture Monitor**
- **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 ReadMoist Through Bin Moisture Analyser for Concrete**
- **GEOSCAN-S On-belt Elemental Analyser for Steel**
- **CM 100-S On-belt Conductive Material Moisture Analyser**
- **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**

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.