

CM 100-R

ON-BELT CONDUCTIVE MATERIAL MOISTURE ANALYSER



CM 100-R 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:

- Measuring moisture to determine dry weights;
- Controlling feed blends on dry weight basis;
- Controlling moisture where needed, e.g. dust control;
- Measuring moisture in furnace feeds;
- Improved process temperature stability;
- Reduction in energy/fuel consumption;
- Measuring process feed chemistry e.g. H content;
- Divert or alarm when unacceptable compositions are detected;
- Suitable for metals and other conductive materials.

CM 100-R 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;
- Measures through full bed depth;
- Continuous analysis, representative results;
- No sampling necessary during normal operation;
- Optional customised software output using SUPERSCAN;
- Local technical support;
- Remote technical support;
- Improving plant efficiencies;
- Optimising fuel consumption;
- Lower energy costs;
- Prolong asset life.

CM 100-R

CM 100-R Description

The determination of moisture in materials involved with production processes is vitally important, particularly in recycling operations. 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 processes sensitive to moisture content variation can be effectively managed. Ingredient blending should be optimised using dry weights.

However, due to the production and storage methods employed, recycled materials can be delivered at a variety of moisture contents. To date, the accurate measurement of moisture in conductive materials has not been possible directly on the conveyor belt. Operators may make continuous adjustments to compensate for the moisture content, ensuring an appropriate blend feeds the process. Electrically conductive and highly magnetic materials, are not suitable for traditional methods of on-line microwave moisture measurement techniques and surface measurement is unlikely to be representative.



ADELAIDE OFFICE

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

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

BRISBANE OFFICE

PO Box 1485 Springwood
Queensland 4127
AUSTRALIA

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.