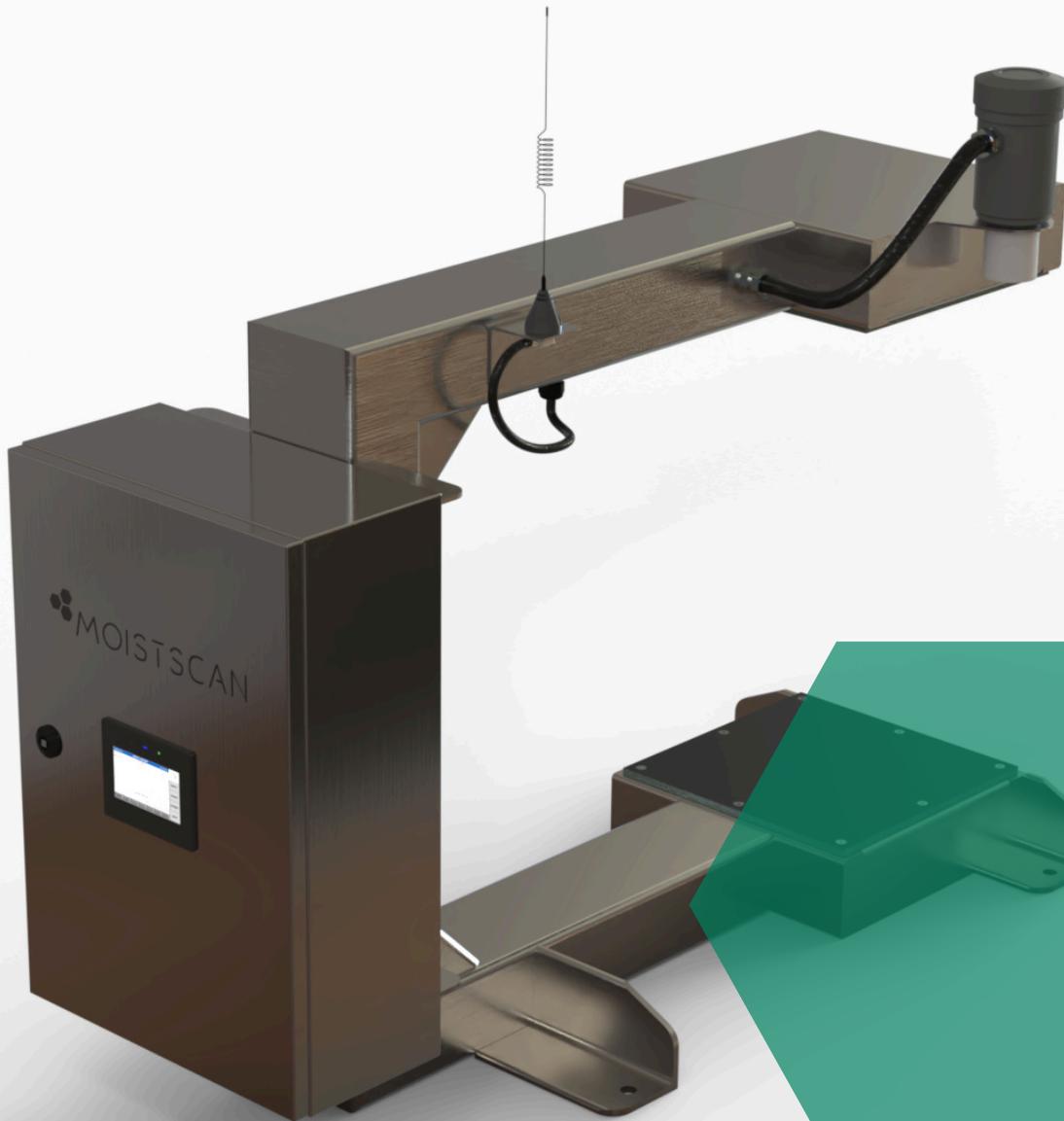


MoistScan

Advanced Moisture Analysis



 Moisture Analysis

 24/7 Remote Support

 Maximise Yield

Real Analysis. Real Data. Real Time.
EMPOWERING INFORMED DECISIONS THAT SHAPE TOMORROW

MEASUREMENT IN MINING

Understanding the material's composition is vital at every stage, allowing operators to maximise product value, maximise efficiency and minimise risk. With value dependent on material content, small changes can drastically alter the end value of the material. Without measurement, operators are incapable of determining material value and run the risk of drastically reducing revenue.

MICROWAVE TECHNOLOGY

Utilising sophisticated microwave technology, combined with powerful hardware and software, the MoistScan reports total moisture in real-time as the product is being conveyed.

Extensive application knowledge means the MoistScan sweeps a microwave frequency band that is highly responsive to moisture variation.

MoistScan is minimally affected by:

- Varying bed depth.
- Vertical or horizontal segregation.
- Varying particle size distribution.
- Temperature fluctuations.

WHY REAL TIME INSTRUMENTS?

RTI solutions are built by miners, for miners, with over 20 years of experience.

With a global customer base, 24/7 remote servicing and a customer focused approach, RTI has established itself as a leading provider of real-time analysis solutions across a range of commodities.

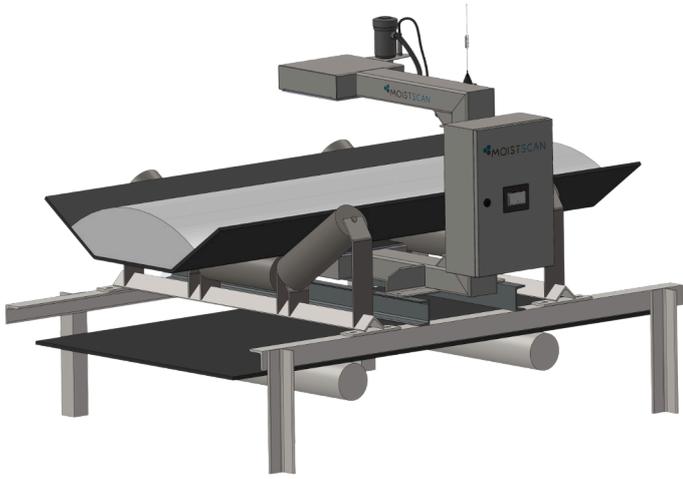
Our solutions are tailored to the customer, with expertise in bulk ore sorting, ore management, grade control, feedback systems and process optimisation.



GLOBAL HEADQUARTERS

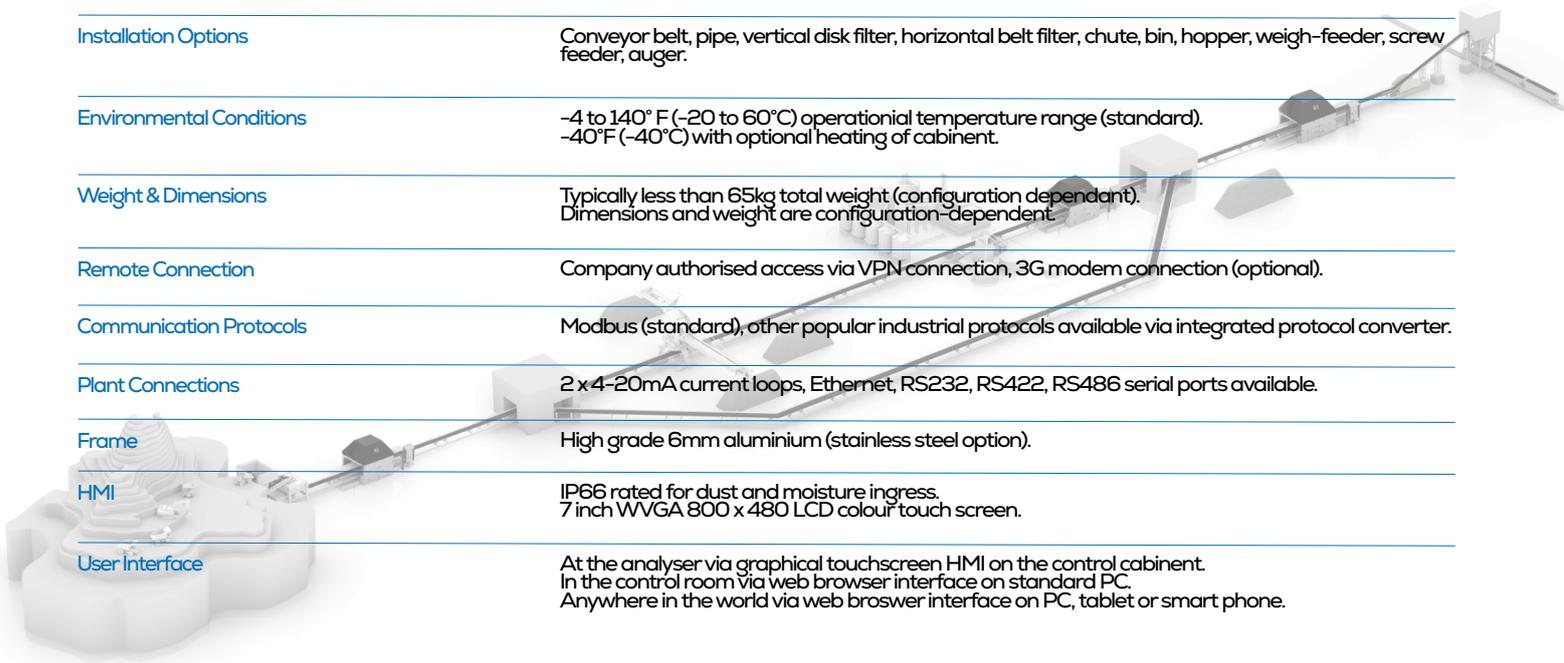
Real Time Instruments
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Specifications

Measurement Technique	Variable Frequency Microwave Transmission (VFMT).
Parameter Measured	Total Moisture.
Measurement Range & Frequency	0-95% (application dependent), 50MHz frequency.
Wavelength	0.5MHz - 3.0MHz (application dependent, application optimised).
Instrument Precision	Typically 0.3% at 1 Standard deviation (application dependent).
Plant Inputs	Conveyor running digital input. Beltscale mass flow rate analogue or digital pulse (optional).
Plant Outputs	Instantaneous moisture. Time averaged moisture (user defined). Tonnes weighted moisture.
Power	Instrument quality 110/240VAC 50/60Hz.
Installation Options	Conveyor belt, pipe, vertical disk filter, horizontal belt filter, chute, bin, hopper, weigh-feeder, screw feeder, auger.
Environmental Conditions	-4 to 140° F (-20 to 60°C) operational temperature range (standard). -40°F (-40°C) with optional heating of cabinet.
Weight & Dimensions	Typically less than 65kg total weight (configuration dependant). Dimensions and weight are configuration-dependent.
Remote Connection	Company authorised access via VPN connection, 3G modem connection (optional).
Communication Protocols	Modbus (standard), other popular industrial protocols available via integrated protocol converter.
Plant Connections	2 x 4-20mA current loops, Ethernet, RS232, RS422, RS486 serial ports available.
Frame	High grade 6mm aluminium (stainless steel option).
HMI	IP66 rated for dust and moisture ingress. 7 inch WVGA 800 x 480 LCD colour touch screen.
User Interface	At the analyser via graphical touchscreen HMI on the control cabinet. In the control room via web browser interface on standard PC. Anywhere in the world via web browser interface on PC, tablet or smart phone.



Unrivalled Accuracy and Reliability

The MoistScan tackles even the most difficult of applications. Our patented MoistScan dual measurement multi-frequency microwave generator measures attenuation and phase shift of the microwave signal, isolates noise and cancels it out, resulting in a measurement that correlates with moisture at an R² typically of 0.85 or greater.

Hassle-Free Installation

MoistScan is delivered fully assembled. No modifications are required to existing structures to enable installation.



Proven Performer On All Applications

Our record speaks for itself. MoistScan® is the most utilised online microwave moisture analyser in the world today.

Chemicals

- Fertilisers
- Pharmaceuticals

Mineral Processing

- Sinters
- Pellets
- Hydrates
- Concentrates

Mining

- Iron Ore
- Bauxite
- Nickel ore
- Gold ore
- Copper ore
- Diamond Ore
- Rare Earth
- Manganese
- Phosphates
- Coal

Building Products

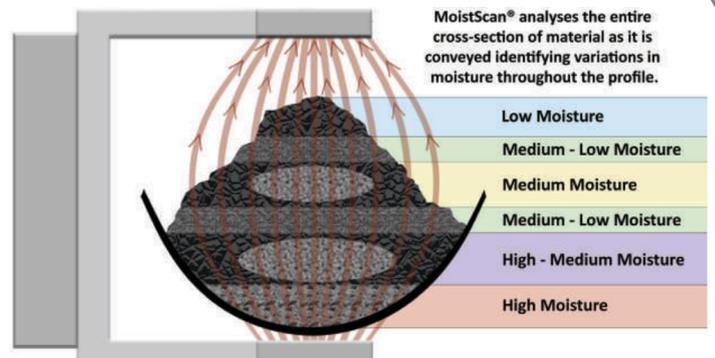
- Sawn timber
- Fibreboard
- MDF
- Cement
- Clay
- Aggregate
- Sand
- Plasterboard

Green Technologies, Power Generation And Biofuels

- Bagasse
- Woodchip
- Sawdust
- Wood flake
- Hog fuel

Food

- Cheese
- Butter
- Snackfoods
- Flour
- Starch
- Petfood
- Cereal
- Pasta
- Sugar Cane



Key measurements

- Instantaneous moisture
- Time-averaged moisture
- Tonnes-weighted moisture
- Dry tonnage



LOCATIONS

North America | South America | Oceania

GLOBAL HEADQUARTERS

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