

# MoistScan® MA-500

## On-Belt Microwave Moisture Analyser

### General Description

The MA-500 is ideal for use on non-conducting materials with low to medium moisture content and relatively low bed depth.

The analyser fits to a standard belt conveyor. It has a rugged c-frame configuration, is supplied fully assembled and is easily installed. Standard in the MA-500 are a range of communication options for sending and receiving data. Its user-friendly features are designed to make commissioning, calibration and system integration straightforward. Data storage and connectivity capabilities of the MA-500 enable technical support via remote access for diagnostic purposes and periodic calibration verification.



MINING

AGRICULTURE

CHEMICALS

BUILDING MATERIALS

FOOD

BIOFUELS

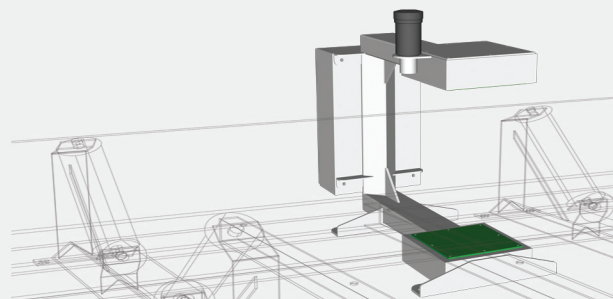


### Benefits

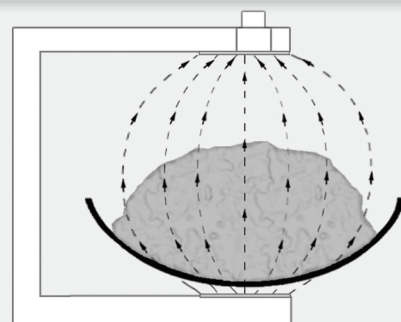
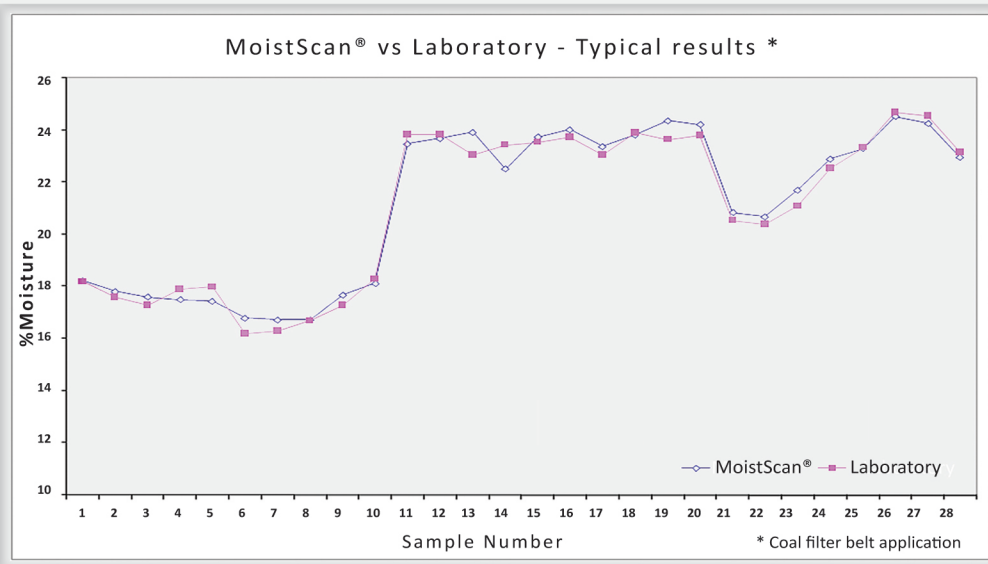
- Superior Precision and Accuracy
- Belt Scale not required
- Non Contact
- Non Nucleonic
- Low Whole of Life Costs
- Easy to Install
- Seamless Plant Integration
- Remote Access Calibration & Servicing

### Features

- Analyses 100% of the material on the conveyor from top to bottom.
- Uses MoistScan®, the most widely used online microwave analysis technology on the market for measuring moisture in bulk materials.
- Measures the bed depth of the material to compensate for mass flow rate. Other microwave analysers may require an input from a beltweigher or a radioactive source
- No contact with the material being analysed
- No radioactive source is required
- As no beltweigher or radioactive sources is required ongoing costs associated with servicing and regulatory compliance is minimal
- Fully assembled and easily bolts to the stringer supports of the conveyor
- Wide range of communication options for transmitting data to Plant PLC
- Cost-effective remote communication access for periodic checking of calibration



## The MoistScan® microwave advantage



"MoistScan® analyses the entire cross-section of material as it is conveyed identifying variations in moisture throughout the profile."

## Specifications

|                       |  |
|-----------------------|--|
| Instrument Precision: | Typically 0.3% at 1SD (subject to application and material composition)  |
| Measurement Range:    | 0 to 90% moisture  |
| Measurement Freq:     | 50Hz   |
| Communications:       | Ethernet TCP/IP, Modbus (in-built protocol converter enables connection via most popular brand communication protocols)              |
| Operator Interface:   | LCD touch panel display on control cabinet (colour & trend display options)  |
| Operating Temp Range: | 0 to 50° Celsius (extreme temperature options)   |
| Humidity Range:       | 0 to 90% relative (non-condensing)   |
| Power:                | 110/240VAC 60/50Hz, 300 watts maximum dissipation (24V, 48V DC options)  |
| Control Cabinet:      | Steel powder coated NEMA 4X/IP66 (stainless steel, food grade CIP, explosion proof options)  |
| Frame:                | Aluminum powder coated (stainless steel, food grade CIP, custom size options)  |
| Outputs:              | Instantaneous moisture and average moisture via 2 x 4-20mA analog outputs (digital output via RS232, RS485, serial/ethernet options) |

### Your local MoistScan® Representative:

#### AUSTRALIA - HEAD OFFICE

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