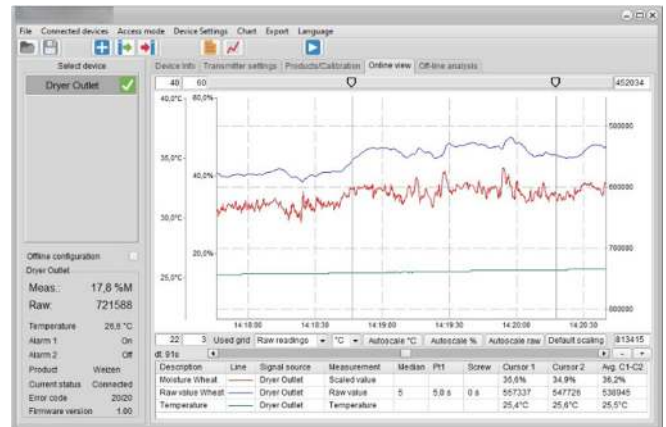


MoistIQ



Continuous Inline Moisture Measurement for Bulk Solids



- Real-time, inline moisture measurement (up to $\pm 0.1\%$ accuracy depending on material)
- Measures and averages up to 8" into the material for total moisture – not just the surface
- Ideal for screw feeders, bins, conveyor belts
- Maintenance-free, ceramic/Teflon/POM sensor surfaces
- ATEX Zone 20/0 options available for Ex 
- User-friendly Windows software and intuitive calibration
- Up to 24 calibration recipes can be stored, 16 of which can be selected via digital input
- Long-term data logging, alarms, and Modbus integration
- No lab delays – act instantly on moisture changes

MoistIQ is a state-of-the-art system designed for measuring online moisture in bulk solids. Measurement results can be used to control a dryer, automate humidification or to continuously monitor the process.

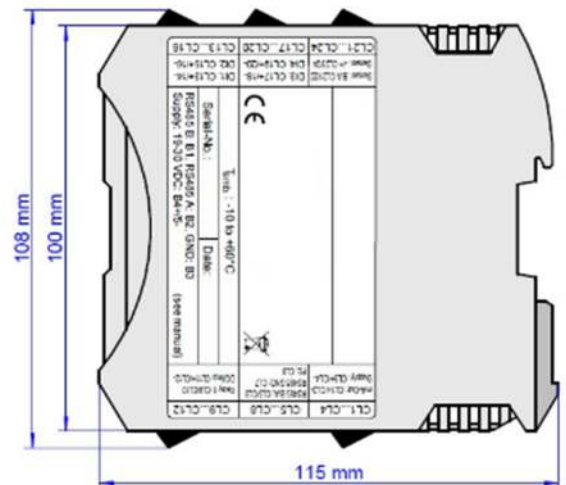
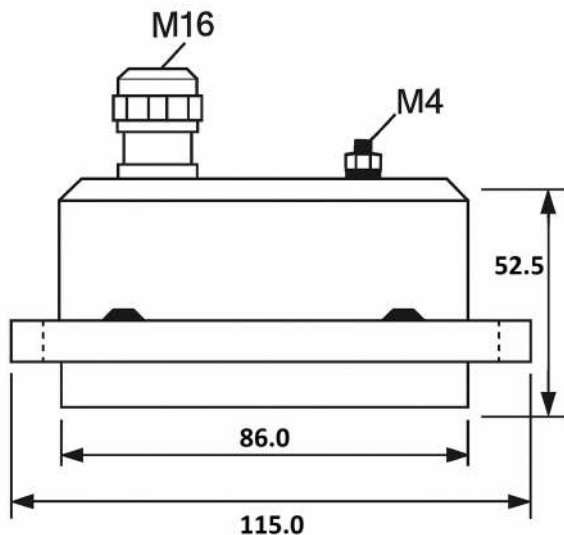
Measurement Principle

The **MoistIQ** uses a capacitive measurement method, generating an electromagnetic field to detect changes in the dielectric constant and high-frequency attenuation of bulk solids. Because water has a significantly different permittivity than dry material, the system accurately infers total moisture content—not just surface moisture—in real time. Its sensor field penetrates up to 8 inches into the product, delivering highly reliable readings even in challenging industrial environments.

Easy Installation

1. Weld the sensor flange
2. Install sensor and wire to transmitter

Dimensions



Technical Data

Measurement range	From 0-85% residual moisture
Technology	Capacitance
Components	Sensor, Transmitter, & Flange
Accuracy	Up to 0.1%
Sensor body	Stainless Steel 1.4301
Sensor face	POM, Ceramic, or Teflon
Sensor mounting	Flange, changeable faces
Cable	4 conductor, 3m length std
Max. Cable Length	Up to 500m
Ambient temp.	32° ... 158°F (0° ... 70°C)
Process temp.	32° ... 194°F (0° ... 90°C)
High Temp. Version	32° ... 248°F (0° ... 120°C)
MoistIQ EX Version	32° ... 158°F (0° ... 70°C)
Process pressure	0 ... 87 psi (0 ... 6 bar)
Protection class	NEMA 6 (IP 67)
Power Supply	24 VDC, max 1.5 W
Outputs	1x 4-20mA or 0-10V 1x relay, 1x transistor 1x RS485 MODBUS
Inputs	4x digital (8-36 VDC, 2-14mA)
Programming	PC Software (free)
Calibration	Up to 24 calibration curves

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