NIR-6000

ON-LINE MOISTURE ANALYZER

KPM | Sensortech Systems®
a KPM brand

M.C. TEC

Continuous On-Line Moisture Measurement in Challenging Process Environments

The Industrial NIR-6000 sensor delivers reliable non-contact moisture measurements directly in process environments for effective monitoring and control of almost any production line.

PROVEN TECHNOLOGY

Based on proven near infrared reflectance (NIR) technology for precise moisture measurements, the NIR-6000 is accurate to within +/- 0.1% moisture for many applications. Hundreds of manufacturing facilities rely on the NIR-6000 to generate accurate and reliable results required for responsive process control to optimize production and improve efficiency.
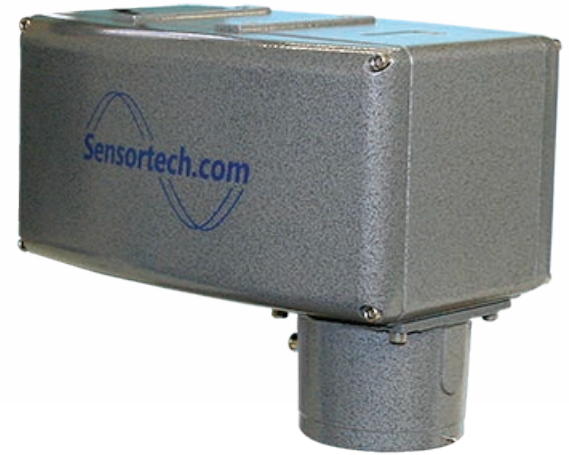
RUGGED DESIGN

The NIR-6000 is rated IP65 for years of trouble-free operation and low cost of ownership. Hardened electronics are designed for stable operation over a wide temp range of 0 - 55°C (32 to 131°F) in the standard model. Optional side panels extend this operating range down to -20 °C (-4 °F) with heating and up to 85 °C (185 °F) with air vortex cooling.

EASY IMPLEMENTATION

For many applications, the NIR-6000 can be delivered pre-calibrated based on our extensive database of calibrations for almost turn-key operation. Included NIR-6000 configuration software quickly and easily configures the sensor for rapid start-up.

NIR-6000 FEATURES

- Reliable and accurate results
- Global installed base
- Ready for challenging environments
- Easy integration to factory automation

APPLICATIONS:

- Chemicals and powders
- Minerals and ores
- Wood and bioenergy
- Paper and textiles
- Coke and coal

NIR-6000 MOISTURE ANALYZER

Ready to Optimize Your Production

Direct integration into your plant PLC is easy with three (3) 4-20 mA and RS232/485 outputs to drive feed forward or backwards control and achieve optimal drying to maximize yield and save energy.

The NIR-6000 includes a proprietary PC-based software package that offers an accelerated view of your production process from a computer. General measurement reading, data-logging, calibration utilities and numerous configurations are among the many features included.

ORDERING INFORMATION

All NIR-6000 analyzers have a 2 year factory warranty for parts and labor and include the following: Powder-coated cast aluminum IP65 housing, advanced digital noise filtering hardware, pre-progammed algorithms and calibrations, specialized NIR filtering to application requirements, management software, power and connection cables.

MODELS AVAILABLE

Model	Description
NIR-6000	Industrial grade moisture analyzer for standard applications
NIR-6700	Industrial grade high-sensitivity moisture analyzer for dark and high moisture applications

ACCESSORIES

Part Number	Description
90180360000	Sensor, non-contact product temperature (internal pyrometer)
90180350030	Cooling side panel assembly (air vortex cooling)
90180350050	Heating side panel assembly (240 VAC)
90185010000	Calibration standards with case (High/low references)
90180610000A	Base and stand for rear mounting

Heating Panel

Air Cooling
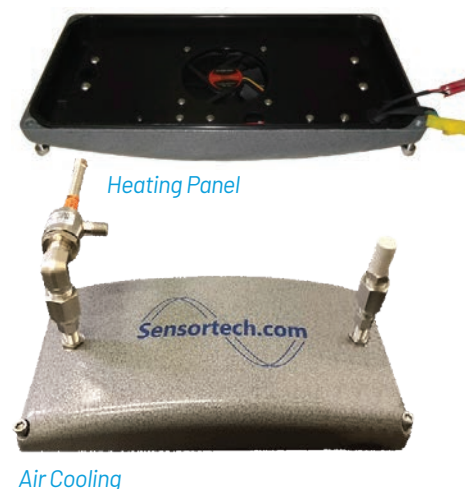
SPECIFICATIONS

Name	Specification
Moisture accuracy	± 0.10% (subject to application)
Moisture range	0 to 95%
Recommended measurement distance	100 – 300 mm (4 – 12 in.)
Ambient temperature	0 to 55°C (32 to 131°F). Down to -20°C with heating option, up to 85°C with cooling option
Standard mount	Top or rear mount for positioning over conveyor belts or looking through a sight glass window.
Sensor size	31.1 cm L x 26 cm H x 22.2 cm W (12.25" x 10.25" x 8.75")
Sensor weight	9.5 kg (21 lbs)
IP rating	IP65
Power	80/265 VAC (50/60Hz), 25W; 24VDC upon request
Interfaces	− Ethernet TCP/IP − Serial RS-232 − Isolated 4-20mA outputs − RS-422/485 (factory configured)

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