NIR-6000
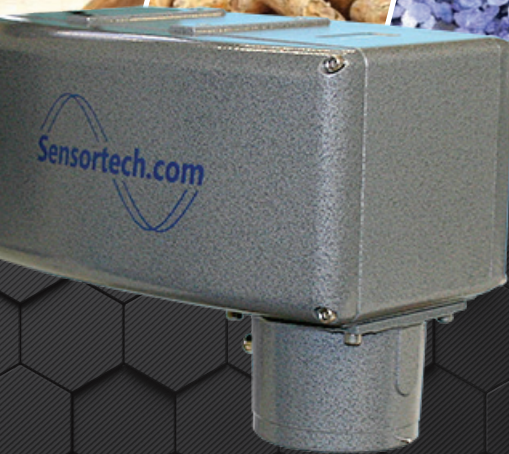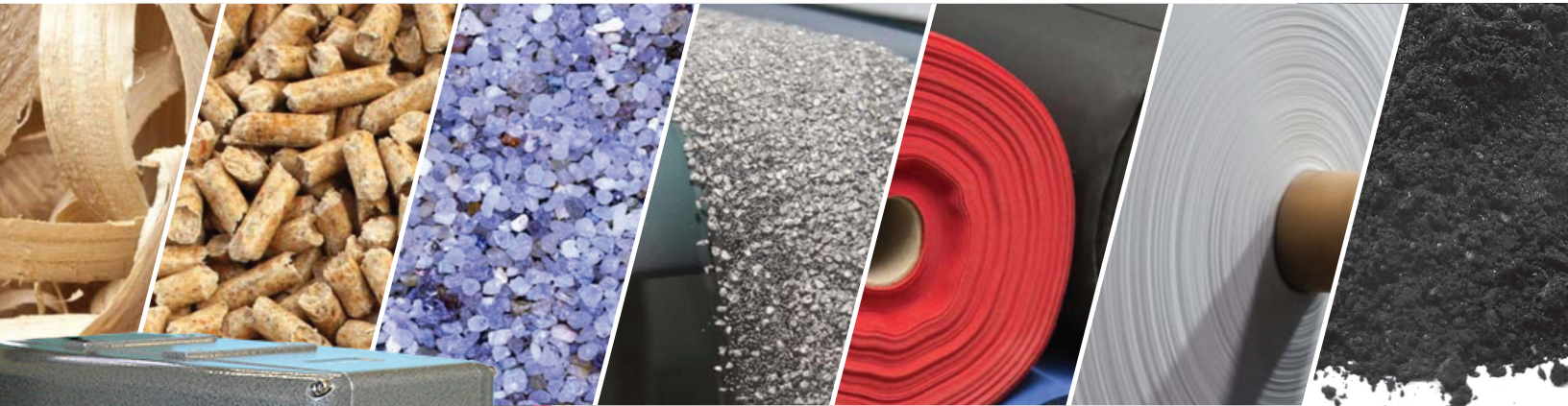
On-Line Moisture Analyzer

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.

INDUSTRIAL GRADE MOISTURE ANALYZER

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

APPLICATION EXAMPLES:

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

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 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
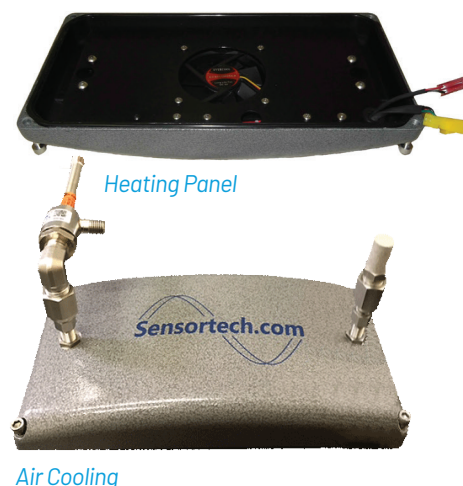
SPECIFICATIONS

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)