

PREDIKTIR II

Simple, On-Line Moisture Gauge for Converting Processes

PrediktIR II is the next-generation, near-infrared gauging solution uniquely designed for the important process measurement of moisture in converting applications.

Designed to Deliver Value

Across a wide range of applications, PrediktIR II continues to deliver the NDC Technologies' pedigree of best-in-value performance. It provides long-term stability and accurate moisture measurement of paper, film and coated products independent of changes in ambient conditions (such as lighting, temperature or humidity) and is tolerant to process physical changes (such as pass height). This allows you to tightly and consistently control processes with the highest degree of confidence.

This degree of flexibility and simplicity allows you to lower your operating costs and maximize your profitability, so you can realize a long-term return on value.

Key benefits of on-line measurement:

- ▶ Enhance product quality and consistency
- ▶ Reduce waste
- ▶ Avoid over drying
- ▶ Faster startup and grade changes
- ▶ Increase process productivity



Applications

- ▶ Moisture in paper and board
- ▶ Re-moisturizing paper webs for label stock or corrugating
- ▶ Water-based pigmented or clay coatings
- ▶ Liner board moisture control for corrugators
- ▶ Adhesive coatings on paper or film for adhesive tape
- ▶ Melamine or urea-based coatings on paper
- ▶ Hotmelt adhesive coatings on paper
- ▶ Wax coatings on paper
- ▶ Vinyl and PVC coatings on paper
- ▶ Polymer coatings on paper
- ▶ Moisture measurements in paper and board pre-polymer extrusion
- ▶ Moisture in paper pre-metallization
- ▶ Cellulose pulp sheet moisture

If you do not see your application listed, please contact an NDC Sales Representative.

SPECIFICATIONS

Component/Parameter	Description
Source Lamp	Quartz halogen 20 W underrun, lifetime <40,000 hrs
Filter Wheel Motor	24 V brushless DC
Operating Temperature Range	0–50°C (32–122°F)
Gauge and IO	10 m or 20 m interconnecting cable between gauge and GCI
Power Consumption	35 W (Gauge and Gauge Control Interface)
Head Construction	Stainless-steel with Air Purge Window (option)
Environment	Gauges and Gauge Control Interface IP65/Nema 4
Moisture Range	0–95% depending on application
Process Connectivity	4–20 mA standard, 8 Digital Inputs (Opto-Isolated), 8 Digital Outputs (FFT driven)
Optional	Ethernet IP, ProfiNet, Modbus TCP, Profibus, DeviceNet all from Gauge Control Interface
CE Compliant	EMC EN61326

System Configuration

The PrediktIR II gauging system is designed to accommodate a wide range of possible configurations. Examples of single- and two-gauge configurations are shown below. PrediktIR II gauges in 304 stainless-steel enclosures are connected to a PrediktIR II Gauge Control Interface (GCI) with a 10-inch color touchscreen and PrediktIR II Power Hub (PH) delivering 24V DC.



PrediktIR II measures over a 25 mm diameter standard beam patch size. It is suspended over the process line at a distance of 200 mm from the mean product height and tolerates product height fluctuations of ± 50 mm.

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