

# PREDIKTIR II

## Simple, On-Line Moisture Gauge for Converting Processes

PrediktIR II is the next-generation, near-infrared gauging solution uniquely designed for fixed-point, moisture-only measurement applications in converting processes.

From paper to coatings to films, Predikt IR II continues to deliver the NDC Technologies' pedigree of best-in-value performance. It provides long-term stability and accurate moisture measurement of powders, flakes and granules 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.

Whether you're looking for an entry-level or simple on-line moisture gauge, PrediktIR II excels in a wide range of processes where special measurement applications and capabilities are not required. 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. For more sophisticated measurements, refer to NDC Technologies' Series 9 Converting gauge.

### Advantages

- 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	0-45°C (32-113°F)
Gauge and IO	10 m of interconnecting cable between gauge and OI, Cat 5e LAN cable
Power Consumption	35 W (Gauge and Gauge Control Interface)
Head Construction	Stainless-steel with Air Purge Window
Response Time	2-1000 seconds configurable
Measurement Speed	63 Hz
Environment	Gauge & OI IP65/Nema 4
Moisture Range	0-95% depending on application
Process Connectivity	4-20 mA standard, 8 Digital Inputs (Opto-Isolated), 8 Digital Outputs (FET Driven)
Optional	Ethernet IP, ProfiNet, Modbus TCP, Profibus, DeviceNet all from OI
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 60 mm diameter standard beam patch size. It is suspended over the process line at a distance of 250 mm from the mean product height and tolerates product height fluctuations of  $\pm 100$  mm.

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