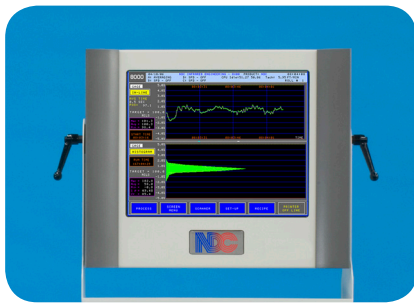


Product Information Sheet

FIXED POINT MEASURING SYSTEM

Model 8110-F



APPLICATIONS

- PRESSURE SENSITIVE TAPE
- SATURATES
- SPECIALTY TAPES
- LAMINATES
- ADHESIVES
- METALLIC COATINGS
- EPOXY
- HOT MELT ADHESIVES
- FRP
- PREPREGS
- SMC
- TEXTILES
- ROOFING

8110-F: Part of the TDi family of distributed on-line measurement and control systems

The NDC Model 8110-F is a simple yet expandable gauging system for on-line measurement of basis weight, coating weight, moisture or thickness

Product Overview

The 8110-F is a simple fixed-point measuring system designed to be easily and cost-effectively upgraded to add scanning and control capabilities in the future. This is accomplished through a distributed intelligence architecture.

Intuitive interfaces and advanced NDC sensors make the 8110-F the most reliable, comprehensive and easy-to-use system available.

The operator can access all functions via the 8110-F's high resolution screens, to achieve process understanding unmatched by other systems. Accessible functions include:

- Target settings
- Recipes
- Alarms
- Reports
- Auto control set-ups
- Display selections

Interface choices include a hardened, dedicated Workstation using touchscreen technology, or NDC's unique ViewStation™ software that will run on any Windows XP™ compatible PC with mouse, enabling up to eight 8110-F systems to be controlled from one central workstation.

With the dedicated MiniFlex OWS, only one system's displays can be viewed at a time; using a customer-supplied PC with NDC ViewStation software, multiple systems' displays can be viewed simultaneously on the same screen (dependent on screen resolution and display window size).

Features

- Continuous displays of machine direction weight, thickness or moisture in real time
- Input from one of NDC's unique GBS sensors, XRF sensors or high-performance Near-Infrared Sensors
- Compact, rugged industrial design
- Touchscreen or Mouse interface
- Multi-lingual Displays (15 languages)
- Product recipes stored in non-volatile RAM
- Displays and Reports for Operators and Management
- Continuous displays of machine direction weight, thickness or moisture in real time



Gauging & Control System Model 8110-F

OWS / ViewStation Software:

displays real-time measurement parameters while the operator selects from among different display screens. Depending on the application, there are several reports and displays available for operators and management.

Typical Displays:

- Real time numeric display of:
 - Thickness
 - Moisture
 - Basis Weight
- Real time machine direction profile
- Histogram
- Trend data

Typical Reports:

- Job; Roll; Shift; Hourly

Any report or display can be printed out automatically (end of roll, end of shift, etc.) or on demand.

Sensor Technology:

NDC specializes in the development of advanced sensors that are unique in the marketplace, characterized by their small size and exceptional stability. The 8110-F works with the following:

- Gamma backscatter (GBS): Models 101, 102, 103, 102EPP, 103EPP
- X-ray Fluorescence: Models 105, 107
- Near infrared: Models NDC710, SR710

NDC710 NIR Gauge



Options:

- Automatic Control of line, extruder or pump speed, automatic valves, etc.
- SPC/SQC: Analysis and report package with \bar{x} , range, Cpk & Ppk
- FFT: Fast Fourier Transform Analyzer
- Analog Outputs: Programmable isolated outputs
- Communications: Bi-directional communications packages for host computer or PC
 - OPC or Open Access communications
 - Modbus TCP/IP communications (other PLC software and hardware interfaces available via Gateways)
- Printer: free support for customer-provided printer with USB connection and Hewlett Packard PCL-5 command language compatibility
- Data Historian II: enables data archiving on a PC running Windows and analysis of data in popular spreadsheets & databases

Specifications:

Operator Workstation (MiniFlex™)

- Power: 115 or 230 VAC, $\pm 10\%$, 50/60 Hz, 10A
- Size: HWD: 19 x 19.5 x 8 inches (483 x 495 x 203 mm)
- Weight: 80 lbs. (36kg)
- Ambient Temperature: to 105°F (40°C); higher temperatures can be supported with cooling options
- Mark: Conforms with EC directives on electromagnetic compatibility and safety
- Monitor Resolution: 1024 x 768 at 72 Hz

iBridge Distributed Control Station

- Power: 100/240 VAC 50/60 Hz, 2.5A
- Size: HWD: 16 x 16 x 8.8 in. (407 x 407 x 223 mm)
- Weight: 40 lbs. (18.2 kg) Max.
- Ambient Temperature: To 105°F (40°C) (higher with cooling)
- Mark: Conforms with EC directives on electromagnetic compatibility and safety

NDC Infrared Engineering is represented in over 60 countries worldwide

a **spectris** company

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