

Process Sentry™ 3 System Controller



Embedded controls provide complete system monitoring and control of adhesive and sealant dispensing.

The Nordson Process Sentry 3 system controller has embedded controls running a real-time operation system that provides complete monitoring and control of numerous Nordson dispensing systems. An easy-to-use graphic interface allows for simple operation, adjustment and fault monitoring.

Features and Benefits

- **Simple design immediately identifies dispensing system status and process faults for reduced rejects and less downtime.**
- **User-friendly graphic interface provides easy troubleshooting and reduced maintenance costs.**
- **Controls and monitors dispensing system, pump system and operational temperature conditioning system or electrically heated zones throughout operation.**
- **Records process data, including part ID, and actual and setpoint volumes, as well as fault codes.**
- **Integrated USB port allows easy access to SPC data and upload of software improvements.**
- **Controller flexibility allows use with a variety of Nordson dispensing systems, meeting almost any application requirement.**

Complete Monitoring and Control Capabilities

The Process Sentry 3 controller uses a touch-screen display to provide precise graphic representation of the dispense system. It also controls all aspects of the dispensing equipment, including volume dispensed, system pressures, cable continuity and component function.



In addition, the Process Sentry 3 controller directs dispense valve logic, and can control the bulk pumps and optional temperature conditioning systems or electrically heated zones. This ensures proper function of these auxiliary units by monitoring the operating conditions of all system components.

- Controls single- or dual-dispense systems integrated with single- or dual-robot automation systems.
- Manages signals to and from the automation controller for proper sequence and timing.
- Capability for 32 part IDs per system.
- Records and graphs process data, such as date, time, part ID, setpoint, actual volumes and pressures, and fault codes in real time, depending on system capabilities.
- Informs operator of fault conditions and identifies location of error.
- System interface with discreet or serial communication.



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Faults and Alarms

The Process Sentry 3 controller monitors and displays a wide range of system faults and alarms including high-or low-volume pressure, empty drum levels, and over/under temperature.

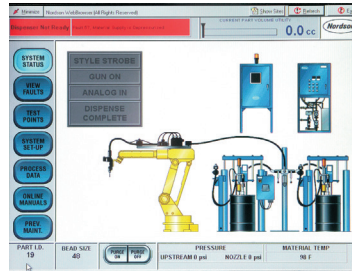
- Fault beacon and controller lights identify exact location of the error.
- Operator receives information about the fault in order to clear it or take action on the problem.
- Help messages direct operator to possible solutions.

SPC Reporting

The PCI controller offers data logging capability to compare actual system performance with dispensing process specifications. System volumes, pressures and faults are constantly recorded. Data is available through a USB port, as well as on the touchscreen display and can be easily downloaded to a lap top computer, a factory information system, or to a Nordson data collector.

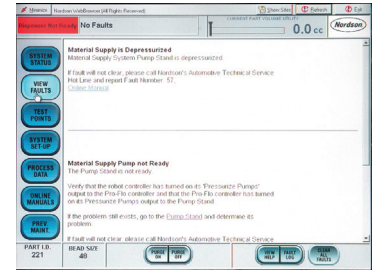
Technical Specifications

Precision Regulator	
Dimensions: Height	36 in. (91 cm)
Width	30 in. (76 cm)
Depth	12 in. (30 cm)
Available Input Power	120/200/240 VAC, 50/60 Hz 3 Amp Maximum
Minimum Range	0 – 10 VDC



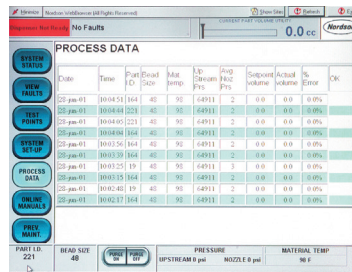
SYSTEM STATUS

Visual status of the dispensing system is displayed and includes interface with automation, bulk delivery system and optional temperature conditioning systems or electrically heated zones. Flashing icons highlight trouble areas and, when selected, display help screens to resolve the issue.



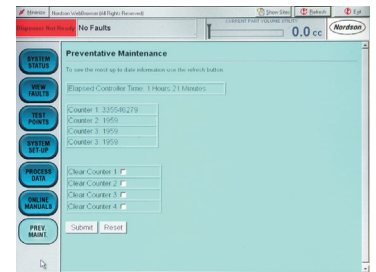
VIEW FAULT

Step by step instructions on how to fix any system fault are displayed. Hyperlinks to the online manuals provide more detailed information.



PROCESS DATA

Operating parameters such as delivery pressure, nozzle pressure, volume dispensed and any faults on a part by part basis are displayed.



VIEW FAULT

Step by step instructions on how to fix any system fault are displayed. Hyperlinks to the online manuals provide more detailed information.

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Nordson Industrial Coating Systems

100 Nordson Drive
Amherst, OH 44001
USA

Phone: +1.440.985.4000
www.nordson.com/ics



/Nordson_Coating



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