

iTrax[®] at a glance



Nordson's iTrax[®] System incorporates spray monitoring, timing control and spray pressure control of the can manufacturing line into one integrated system.

The screenshot shows the iTrax software interface for 'Gun 1'. It displays various parameters and status indicators:

- High Base/Trigger/Fire Fault Status:** Three green 'On' buttons.
- Current Base and Fire Pressure:** Two digital displays showing 536 and 545.
- Trigger Signal Duration:** A digital display showing 100.0 ms.
- Low Base/Trigger/Fire Fault Status:** Three green 'On' buttons.
- Estimated Spray Weight:** A digital display showing 76.
- Spray Counter:** A digital display showing 76018.
- Sprays Per Minute:** A digital display showing 302/min.
- Gun Open Time:** A digital display showing 3.0 ms.
- Actual Trigger Duration:** A digital display showing 100.0 ms.
- Gun Close Time:** A digital display showing 5.0 ms.

A 'Details' window is open, showing options like 'Display pressure graphs', 'Spray Monitor configuration', 'Copy Spray Monitor configuration', 'Spray Controller configuration', and 'iRx configuration'. A blue arrow points from the 'Details' icon in the main interface to this window.

Physical iTrax control unit with a screen and buttons.

Offering real-time monitoring of the inside spray process, iTrax is a proven system for keeping your operation running smoothly and efficiently, with fewer rejects and less downtime.

Spray Monitor (SM) Module

Automatic, real-time monitoring of critical spray gun operating parameters

- Monitored parameters include base pressure, spray pressure, spray duration, spray count, spray rate and gun open and close time
- Relay contacts are provided to automatically shutdown the spray machine if a single "bad" can is detected
- Can-In-Pocket (CIP) feature uses a customer-supplied proximity sensor to verify that a can is in the spray pocket before the spray gun fires, ensuring a timer signal is received for every can that is detected
- Optional PC interface monitors multiple spray guns from a centralized location
- Easy-to-use help screen assists with troubleshooting of the hydraulic system



Spray Controller (SC) Module

Precise, accurate timing controls and power electronics for MEG-type spray guns

- Integrates spray timing, gun driver and CleanSpray nozzle cleaning functions into one system, simplifying installation and operation
- Provides accurate and repeatable timing control to 1 millisecond duration with +/- 0.05 millisecond accuracy
- Offers digital timing control with easy-to-use graphical sliders and push button adjustments
- Used with touch screen or mouse on PC with Windows-based software



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Pressure Control (PRx II) Module

Programmable recipe capability for automatic spray pressure adjustment

- Enables single-location (“one button”) control and input of selected can “recipes”
 - o Each recipe includes operating parameters for a particular can size or coating weight requirement
 - o Recipe parameters include timer, spray pressure and spin speed settings
- Simple operator interface displays messages, task requirements and settings
- Also monitors lacquer temperature, spin speed and vacuum chuck
- Additional can-in-pocket sensing for redundant / back-up proximity sensors



iTrax Remote OPC Client

Monitor and control your iTrax system from any computer on your network

- Change operating parameters remotely
- Compatible with desktop, notebook, industrial and network PCs



iTrax OPC Data Logger

Long-term collection of production and SPC data

- View and print detailed live and historical graphs
- Save gun operating history to a daily log file
- Export log to a spreadsheet
- Assists in trouble-shooting spray issues caused by pressure or flow variations



iTrax DataShare Module

Connects iTrax data to your PLC

- iTrax data to share is selected by the end user (process set-points, real-time readings, warning / alarm configurations and events)
- Allows for enhanced evaluation of system performance and possible improvements
- Easily integrated into QMS, email or plant automation systems
- Also includes utilities to conveniently back-up or restore iTrax software and settings



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In highly competitive manufacturing markets, productivity is vital and performance is essential. That's why we apply both to everything we do, whether it's our products, expertise or outstanding customer service. We'll always be there to help maintain the new standards you've set, with expert service and support delivered through our teams working across the globe.

This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.

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