iTrax® PC Pedestal

Customer Product Manual
Document Number 1617371-02
– English –
Issued 01/25

For parts and technical support, call the Industrial Coating Solutions Customer Support Center at (800) 433-9319 or contact your local Nordson representative.

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Contact Us
Nordson Corporation welcomes requests for information, comments, and inquiries about its products. General information about Nordson can be found on the Internet using the following address:
http://www.nordson.com.

http://www.nordson.com/en/global-directory

Change Record

Revision	Date	Change
01	03/22	Initial Release
02	01/25	Updating Manufacturer Address

Safety

Introduction

Read and follow these safety instructions. Task- and equipment-specific warnings, cautions, and instructions are included in equipment documentation where appropriate.

Make sure all equipment documentation, including these instructions, is accessible to persons operating or servicing equipment.

Qualified Personnel

Equipment owners are responsible for making sure that Nordson equipment is installed, operated, and serviced by qualified personnel. Qualified personnel are those employees or contractors who are trained to safely perform their assigned tasks. They are familiar with all relevant safety rules and regulations and are physically capable of performing their assigned tasks.

Intended Use

Use of Nordson equipment in ways other than those described in the documentation supplied with the equipment may result in injury to persons or damage to property.

Some examples of unintended use of equipment include:

- using incompatible materials
- making unauthorized modifications
- removing or bypassing safety guards or interlocks
- using incompatible or damaged parts
- using unapproved auxiliary equipment
- operating equipment in excess of maximum ratings

Regulations and Approvals

Make sure all equipment is rated and approved for the environment in which it is used. Any approvals obtained for Nordson equipment will be voided if instructions for installation, operation, and service are not followed.

Personal Safety

To prevent injury follow these instructions.

- Do not operate or service equipment unless you are qualified.
- Do not operate equipment unless safety guards, doors, or covers are intact and automatic interlocks are operating properly. Do not bypass or disarm any safety devices.
- Keep clear of moving equipment. Before adjusting or servicing moving equipment, shut off the power supply and wait until the equipment comes to a complete stop. Lock out power and secure the equipment to prevent unexpected movement.
- Relieve (bleed off) hydraulic and pneumatic pressure before adjusting or servicing pressurized systems or components. Disconnect, lock out, and tag switches before servicing electrical equipment.
- While operating manual spray guns, make sure you are grounded. Wear electrically conductive gloves or a grounding strap connected to the gun handle or other true earth ground. Do not wear or carry metallic objects such as jewelry or tools.
- If you receive even a slight electrical shock, shut down all electrical or electrostatic equipment immediately. Do not restart the equipment until the problem has been identified and corrected.
- Obtain and read Safety Data Sheets (SDS) for all materials used. Follow the manufacturer's instructions for safe handling and use of materials, and use recommended personal protection devices.
- Make sure the spray area is adequately ventilated. To prevent injury, be aware of less-obvious dangers in the workplace that often cannot be completely eliminated, such as hot surfaces, sharp edges, energized electrical circuits, and moving parts that cannot be enclosed or otherwise guarded for practical reasons.

High-Pressure Fluids

High-pressure fluids, unless they are safely contained, are extremely hazardous. Always relieve fluid pressure before adjusting or servicing high pressure equipment. A jet of high-pressure fluid can cut like a knife and cause serious bodily injury, amputation, or death. Fluids penetrating the skin can also cause toxic poisoning.

If you suffer a fluid injection injury, seek medical care immediately. If possible, provide a copy of the SDS for the injected fluid to the health care provider.

The National Spray Equipment Manufacturers Association has created a wallet card that you should carry when you are operating high-pressure spray equipment. These cards are supplied with your equipment. The following is the text of this card:

WARNING: Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor that you suspect an injection injury.
- Show them this card
- Tell them what kind of material you were spraying

MEDICAL ALERT — AIRLESS SPRAY WOUNDS: NOTE TO PHYSICIAN

Injection in the skin is a serious traumatic injury. It is important to treat the injury surgically as soon as possible. Do not delay treatment to research toxicity. Toxicity is a concern with some exotic coatings injected directly into the bloodstream.

Consultation with a plastic surgeon or a reconstructive hand surgeon may be advisable.

The seriousness of the wound depends on where the injury is on the body, whether the substance hit something on its way in and deflected causing more damage, and many other variables including skin microflora residing in the paint or gun which are blasted into the wound. If the injected paint contains acrylic latex and titanium dioxide that damage the tissue's resistance to infection, bacterial growth will flourish. The treatment that doctors recommend for an injection injury to the hand includes immediate decompression of the closed vascular compartments of the hand to release the underlying tissue distended by the injected paint, judicious wound debridement, and immediate antibiotic treatment.

Fire Safety

To avoid a fire or explosion, follow these instructions.

- Ground all conductive equipment. Use only grounded air and fluid hoses. Check equipment and workpiece grounding devices regularly. Resistance to ground must not exceed one megohm.
- Shut down all equipment immediately if you notice static sparking or arcing. Do not restart the equipment until the cause has been identified and corrected.
- Do not smoke, weld, grind, or use open flames where flammable materials are being used or stored. Do not heat materials to temperatures above those recommended by the manufacturer. Make sure heat monitoring and limiting devices are working properly.
- Provide adequate ventilation to prevent dangerous concentrations of volatile particles or vapors. Refer to local codes or your material SDS for guidance.
- Do not disconnect live electrical circuits when working with flammable materials. Shut off power at a disconnect switch first to prevent sparking.
- Know where emergency stop buttons, shutoff valves, and fire extinguishers are located. If a fire starts in a spray booth, immediately shut off the spray system and exhaust fans.
- Shut off electrostatic power and ground the charging system before adjusting, cleaning, or repairing electrostatic equipment.
- Clean, maintain, test, and repair equipment according to the instructions in your equipment documentation.
- Use only replacement parts that are designed for use with original equipment. Contact your Nordson representative for parts information and advice.

Halogenated Hydrocarbon Solvent Hazards

Do not use halogenated hydrocarbon solvents in a pressurized system that contains aluminum components. Under pressure, these solvents can react with aluminum and explode, causing injury, death, or property damage. Halogenated hydrocarbon solvents contain one or more of the following elements:

Element	Symbol	Prefix
Fluorine	F	“Fluoro-”
Chlorine	Cl	“Chloro-”
Bromine	Br	“Bromo-”
Iodine	I	“Iodo-”

Check your material SDS or contact your material supplier for more information. If you must use halogenated hydrocarbon solvents, contact your Nordson representative for information about compatible Nordson components.

Action in the Event of a Malfunction

If a system or any equipment in a system malfunctions, shut off the system immediately and perform the following steps:

- Disconnect and lock out system electrical power. Close hydraulic and pneumatic shutoff valves and relieve pressures.
- Identify the reason for the malfunction and correct it before restarting the system.

Disposal

Dispose of equipment and materials used in operation and servicing according to local codes.

Description

The iTrax® pedestal houses the PC used in iTrax systems for flexibility in establishing location of system controls interface. The pedestal comes with the following:

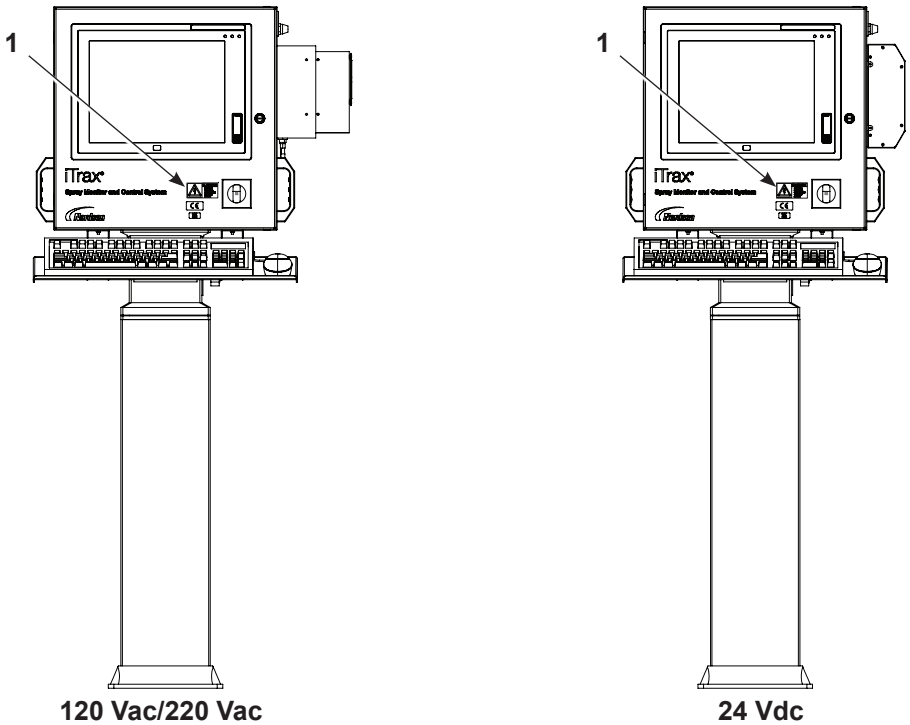
- Power Disconnect
- Power Supply
- iTrax Software
- Backup Battery
- Air Conditioner
- Mounting Stand with Swivel and Tilt Functionality
- Keyboard
- Mouse
- CAN-USB
- Datashare (Ethernet IP standard)

Safety Labels

See Figure 1 and refer to Table 1 for safety labels.

Table 1 Safety Labels

Item	Description
1.	**WARNING:** ELECTRIC SHOCK HAZARD - This equipment is to be serviced by trained personnel only.



120 Vac/220 Vac Configuration

24 Vdc Configuration

Figure 1 iTrax® Pedestal Configurations

Installation

WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

See Figure 2 and Figure 3 for placing and securing the pedestal.

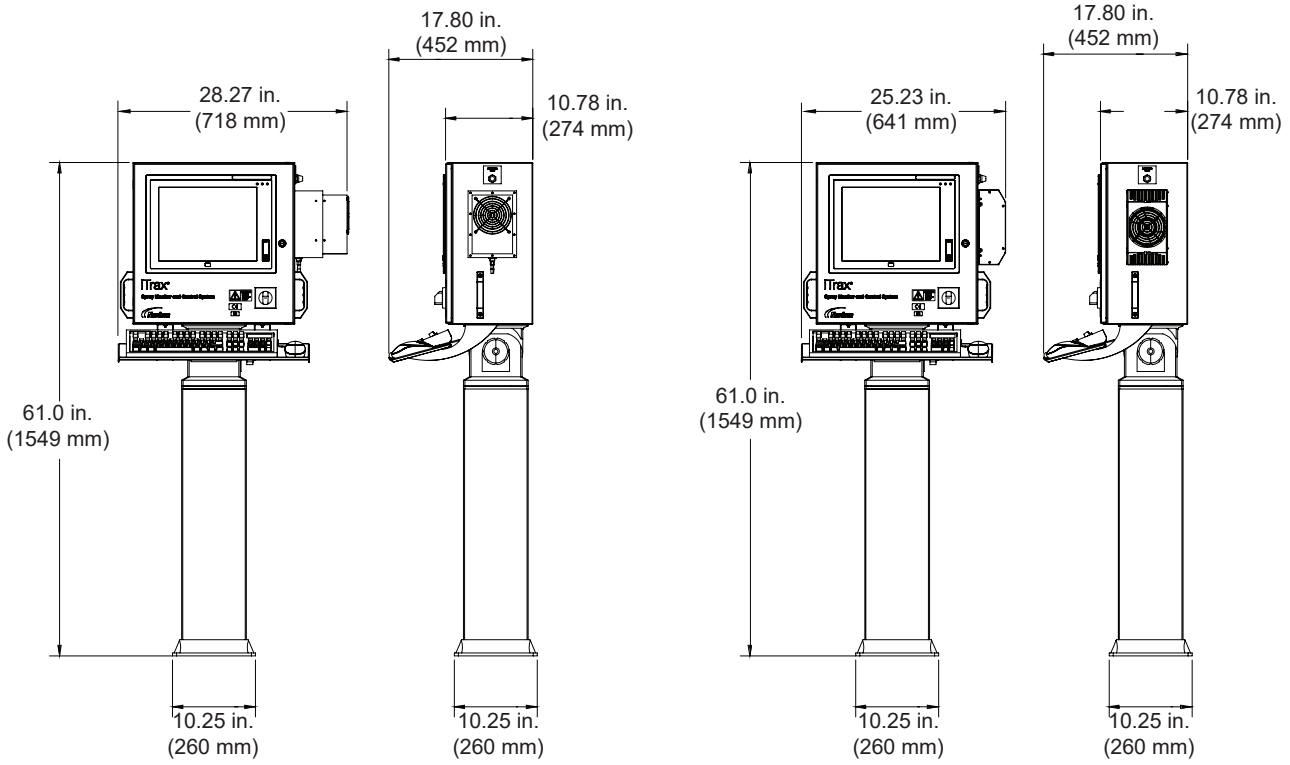


Figure 2 iTrax® Pedestal Dimensions

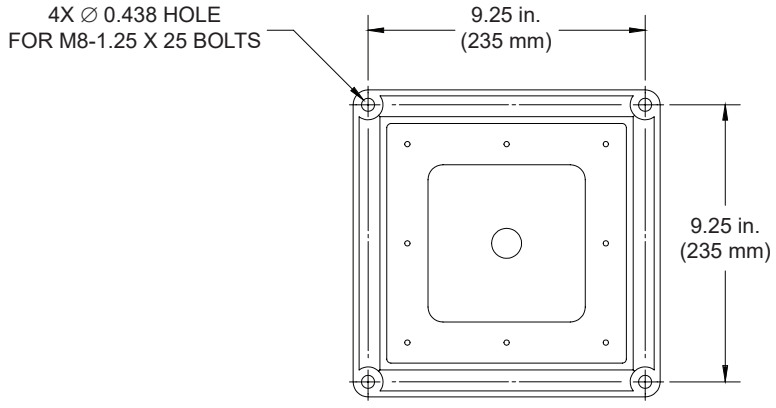


Figure 3 Pedestal Bolt Mounting Dimensions

Installing the Drain Line

NOTE: For 120/220 Vac confirgurations only

NOTE: Two hose fittings (a right angle and a straight one) and a length of PVC tubing are provided with the air conditioner. See Figure 4.

1. Choose the applicable fitting for the application and install it on the bottom of the air conditioning unit.
2. Attach the supplied PVC drain tube to the hose fitting.

WARNING: The drain tube is already on the outside of the enclosure and should be routed so that any dripping condensate does not create a safety hazard.

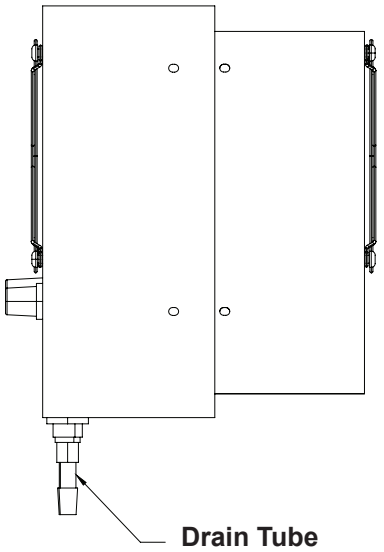


Figure 4 Installing Drain Tube (for 120/220 Vac Configuration Only)

CAN Network Connection

See Figure 5 for location and wiring for the CAN network.

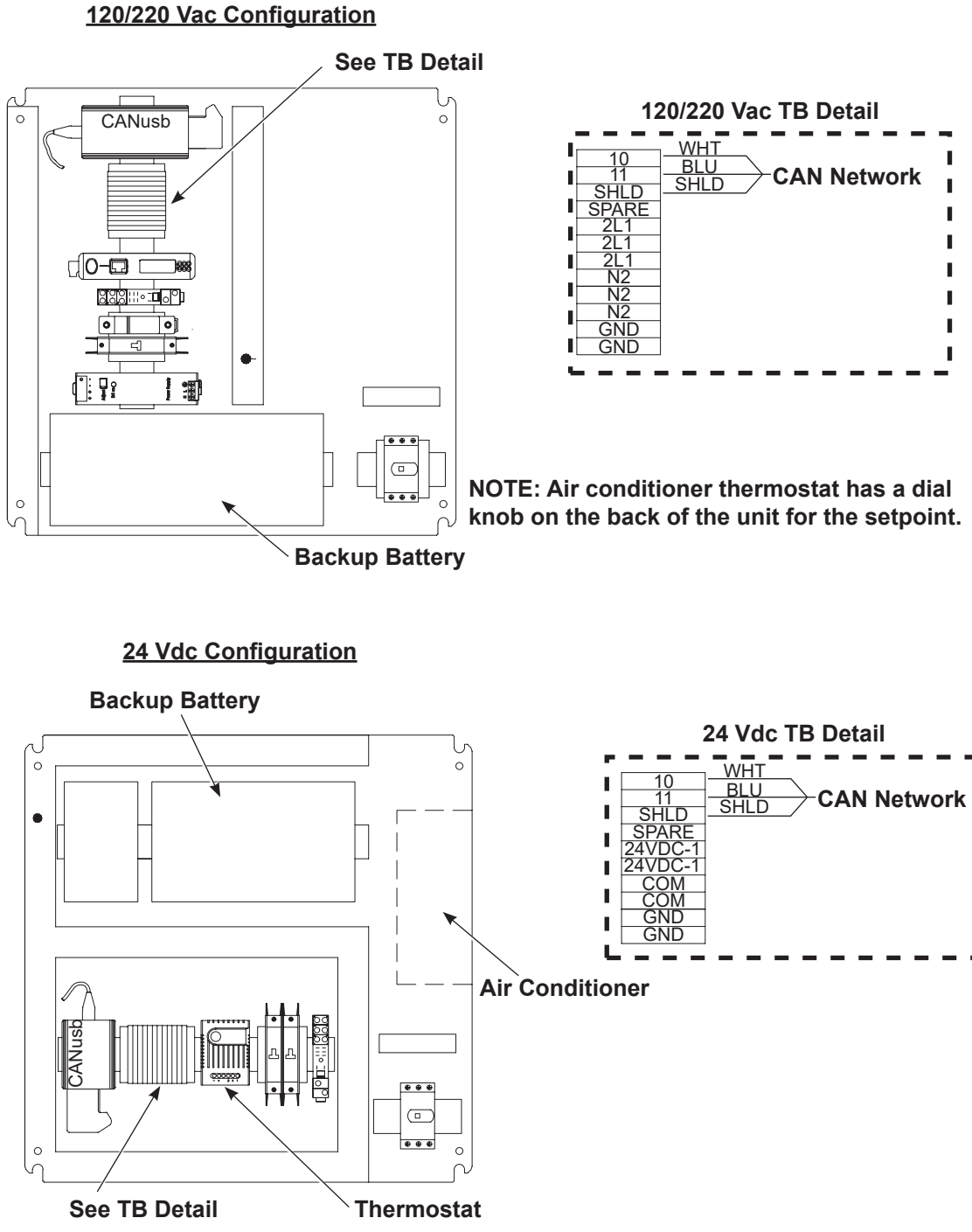


Figure 5 Inside Pedestal Enclosure

Power Connection

For installation, make the appropriate power connections and determine the best knockout size and location for power drop.

Models	120 Vac	220 Vac	24 Vdc
Supply Voltage	120 V, 1 PH, 50-60 Hz	220 V, 1 PH, 50-60 Hz	24 Vdc
Full Load	8 A	4 A	16 A

Operation

Thermostat

See Figure 5 for thermostat locations. The thermostat is factory set at 95 - 100 °F.

The air conditioner will run until the setpoint temperature is achieved within the enclosure and then the fans and cooling modules will shut down.

Backup Battery

The backup battery protects the PC in the event of temporary power loss or power glitches. The backup battery is factory programmed to perform a controlled shutdown 60 seconds after the power is lost.

Table 1 Battery Backup Time Chart

Models	120 Vac (SDU 500B)	220 Vac (SDU 500B-5)	24 Vdc (SDU 10-24)
VA/Watts	500/300	500/300	—
Battery	CSB XTV 1272F2FR	Yuasa REW7-12FR	Refer to *Parts* section
Load Level	**Approximate BackUp Time (Minutes)**		
20%	—	—	113 (2 A)
40%	—	—	45 (4 A)
50%	14:30	14:30	—
60%	—	—	30 (6 A)
80%	—	—	21 (8 A)
100%	4:20	4:20	14 (10 A)
NOTE: Run times in this table are approximate. Run times listed above can vary due to manufacturing variances of the individual batteries.			

Maintenance

Air Conditioner

Beyond occasional inspection for dust or dirt buildup no special maintenance should be required.

Dry dust/dirt can be removed using compressed air to blow out the heat sinks. Do not direct any high-pressure air at the fans.

Repair

WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

Battery Replacement

WARNING: When the backup battery is installed in a Class I, Division 2 Groups A B C D or Class I Zone 2 II C hazardous location, adhere to the following:

- Explosion Hazard – Do not connect or disconnect the battery unless the area is known to be free of ignitable concentrations.
- When removing and installing the new battery, exteme care must be used not to short the metal chassis parts across the battery terminals.
- Remove watches, rings, and other metal objects.
- Use tools with insultated handles.
- Do not lay tools or other metal objects on top of the battery.
- If the battery replacement kit is damaged in anyway or shows signs of leakage, contact the manufaturer immediately.
- Do not dispose of battery in a fire.
- Dispose of old battery according to local codes.
- Electrical safety precautions must be followed when installing or servicing this equipment. To prevent risk of electrical shock, turn off and lockout all power sources to the unit before making electrical connections or servicing.

CAUTION: Only use the recommended manufacturer battery for replacement. Refer to the *Parts* section for replacement battery information.

1. Shut down power to the system.
2. See Figure 5 for backup battery location inside pedestal enclosure. Remove the backup battery unit from the din rail and move to a clean flat surface area.
3. Remove screws securing the the battery cover or enclosure to expose battery.
4. Disconnect the terminal of the battery.
5. Take note of the battery orientation and remove the battery.

CAUTION: Be sure to install the battery in the correct orientation.

6. Install the new battery and make terminal connections.
7. Secure the cover or enclosure with screws and install backup battery unit back onto din rail.

Troubleshooting

WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

These troubleshooting procedures cover only the most common problems. If you cannot solve a problem with the information given here, contact your local Nordson representative for help.

Backup Battery

WARNING: When the backup battery is installed in a Class I, Division 2 Groups A B C D or Class I Zone 2 II C hazardous location, adhere to the following:

- **Explosion Hazard** - Do not disconnect the equipment while the circuit is live or unless the area is known to be free of ignitable concentrations.
- **Explosion Hazard** - Do not connect or disconnect the battery unless the area is known to be free of ignitable concentrations.
- **Explosion Hazard** - Do not open the unit. Do not substitute components. Do not replace fuse.

Problem	Possible Cause	Corrective Action
1. Backup battery nonresponsive (No alarm and no light)	Backup battery is powered off	Press ON/OFF button for two seconds.
	Battery is defective	Replace the battery.
	Backup battery fault	Contact technical support.
2. The Backup battery is always on battery mode	Input may not be properly connected	Check the input connection.
	Input fuse is open	Before reconnecting equipment, verify that the load matches the backup battery capability specified and output has short circuit protection. Contact technical support.
3. Actual backup time cannot be achieved	Battery voltage is too low	Charge the battery at least eight hours.
	Overload	Remove some unnecessary loads. Before reconnecting equipment, verify that the load matches the backup battery capability specified in specification.
	Battery defect	Replace the battery.
	Backup battery fault or charger failure	Contact technical support.
4. Fault code displayed	Overload	Remove some unnecessary loads. Before reconnecting equipment, verify that the load matches the backup battery capability specified in specification.
	Backup battery short circuit	Contact technical support.

Parts

NOTE: For software updates, refer to the *iTrax PC Replacement* guide and contact your Nordson representative.

iTrax Pedestal Configurations

Part	Description	Note
1621546	ASSEMBLY, iTRAX, PC, pedestal, 120 Vac	A
1621547	ASSEMBLY, iTRAX, PC, pedestal, 220 Vac	A
1621545	ASSEMBLY, iTrax, PC, pedestal, 24 Vdc	A
NOTE: A. Assembly comes in RAL7035 light gray.		

Touchscreens

TERMINAL, touchscreen, Windows 10-64, 256 GB HDD, i3		
120 Vac	**220 Vac**	**24 Vdc**
1617219	1617219	1621581

Backup Batteries

24 Vdc (SDU 10-24)		
Manufacturer	**Type**	**Rating**
CSB	HR1221W	12 V dc, 5.0 Ah
	HR1221WF2	
B & B Battery (USA) Inc.	BP 5-12	
	HR 5.5-12	
Kung Long Batteries Industrial Co. Ltd.	WP1221W	
	WP5-12	
Taiwan Yuasa Battery Co. Ltd.	NP5-12 FR	
	NPH5-12	
Japan Storage Battery	PE12V5	
Toplite	NP5-12	
120 Vac (SDU 500B)		
Manufacturer	**Type**	**VA/Watts**
CSB	XTV 1272F2FR	500/300
220 Vac (SDU 500B-5)		
Manufacturer	**Type**	**VA/Watts**
Yuasa	REW7-12FR	500/300

iTrax DataShare Installation Kits

NOTE: Depending on the system requirements, both the Ethernet and Profinet installation kits are available for purchase.

Part	Description	Note
1614723	KIT, DataShare, iTrax, Ethernet	
1614724	KIT, DataShare, iTrax, Profinet	

EU DECLARATION of Conformity

This Declaration is issued under the sole responsibility of the manufacture.

Product: iTrax Industrial Control Panel

Models: System Panel with iTrax modules.

Description: This System can be supplied with a PC. The PC can be mounted in the main panel or mounted in a remote panel.

Applicable Directives:
2006/42/EC - Machinery Directive
2014/35/EU - Low Voltage Directive

Standards Used for Compliance:
EN/ISO12100 (2010)
EN60204-1 (2018)

Principles:
This product has been manufactured according to good engineering practice; and conforms to the directives and standards described above.

DNV – ISO9001 Certified

Date: 13Jan2025

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Nordson Authorized Representative in the EU
Person authorized to compile the relevant technical documentation.
Contact: Operations Manager
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UK DECLARATION of Conformity

This Declaration is issued under the sole responsibility of the manufacture.

Product: iTrax Industrial Control Panel

Models: System Panel with iTrax modules.

Description: This System can be supplied with a PC. The PC can be mounted in the main panel or mounted in a remote panel.

Applicable UK Regulations:
Supply Machinery (Safety) Regulations 2008.
Electrical Equipment (Safety) Regulations 2016.

Standards Used for Compliance:
EN/ISO12100 (2010)
EN60204-1 (2018)

Principles:
This product has been manufactured according to good engineering practices; and conforms to the directives and standards described above.

DNV – ISO9001 Certified

Date: 13Jan2025

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