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iNet DS Assembly Guide

Warnings and Cautionary Statements

⚠️ Failure to perform certain procedures or note certain conditions may impair the performance of this product. For maximum safety and optimal performance, please read and follow the procedures and conditions listed below.

⚠️ Use only in a clean air environment known to be nonhazardous.

⚠️ Use of this product in areas where it may be subject to large amounts of electromagnetic interference may affect the reliable operation of this device and should be avoided. Sources of large amounts of interference could be and are not limited to:

- Operation near high radio frequency (RF) fields (near 2-way radio transmission antennas where the RF fields may greatly exceed 10 V/M, etc.).
- AC Power Mains that may have excessive power surges/spikes/transients (from large AC motors operating heavy loads which may induce voltage sags, etc.).

⚠️ Use only at altitudes below 2,000 m (6,000').

⚠️ NOTE: This product has been tested to, and passes all EMC requirements to EN 61326:1998 Electrical Equipment for Measurement, Control and Laboratory Use for Type 2 (Industrial) Apparatus, as well as FCC Part 15, Class A emissions levels when installed to the requirements outlined within this manual. Mandatory compliance to these standards helps to ensure controlled, reliable operation of this device when exposed to typical levels of electromagnetic interference as well as ensuring that this device is not the source of emissions that might interfere with other equipment installed nearby.

⚠️ NOTE: Per 30 CFR 75.320(b), the product tests for oxygen deficiency of MSHA approved oxygen detectors compatible with the product that can detect 19.5 percent oxygen with an accuracy of ±0.5 percent.

⚠️ NOTE: Per 30 CFR 22.7(d)(2)(i), the acceptable limit during calibration and bump testing with 2.5% methane must be 10% for MSHA approved instruments using ISC certified calibration gas.

⚠️ NOTE: This product has an internal pump that controls the flow of gas being delivered to the system. As a result of the internal pump, a demand flow regulator must be used in conjunction with this product.
General Information

Capabilities

The iNet Docking Station, in conjunction with iNet Control, enables the deployment and maintenance of compatible Industrial Scientific Corporation (ISC) instruments and their components. iNet DS performs the following on a docked instrument:

• Automated bump test and calibration
• Charging of an instrument that is equipped with a rechargeable battery or battery pack
• Upload of data-logs to iNet Control
• Update of instrument settings
• Upgrade of instrument firmware

iNet Control automatically upgrades iNet DS firmware and updates iNet DS stored settings (e.g., iGas cylinder compatibility).

iNet Control is an ISC-hosted, browser-based graphic user interface (GUI) web application. It provides customers access to their data and iNet program features. No software installation is required at the customer site.

Compatibilities

Instruments

Each iNet DS is configured for compatibility with one of the following ISC instruments:

• GasBadge® Plus
• GasBadge® Pro
• MX6 iBrid™
• Tango™ TX1
• Ventis™ MX4 (MX4 iQuad™ compatible)

Gas Cylinders and Accessories

iNet DS accepts only ISC iGas cylinders (calibration gas and zero grade air) used with ISC iGas tubing and card reader assemblies. A demand flow regulator is required; the use of an iGas pressure switch is optional for iNet InSite customers.

Printers

If desired, the iNet DS can be connected to a printer via a USB cable. The printer must be PCL3 compatible; ISC recommends the use of HP Deskjet 6940 Color Printer, HP Officejet 6000 Printer, or HP Officejet H470 Mobile Printer.
iNet DS Assembly Guide

System Requirements

The iNet DS contains a single Ethernet RJ45 port for network connectivity. This facilitates an internet connection to iNet Control. For longer cables (from 14 m to 100 m), the use of solid conductor shielded twisted pair RJ45 Ethernet cable is recommended for optimal performance.

The network connection can operate through DHCP or static IP addresses. iNet DS also supports the use of proxy servers.

The iNet DS does not natively support wireless networking. If a wireless connection is desired, the user must establish that connection through 3rd party hardware solutions such as wireless bridges or mobile broadband routers plugged into its Ethernet port. Use of such a wireless solution will be invisible to the iNet DS.

Care and Operating Guidelines

Use the following operating guidelines to help ensure personal safety and to help protect the unit and the working environment from potential damage.

The unit should be serviced only by qualified service personnel. Contact ISC for examination, repair, or adjustment.

To reduce the risk of electric shock and/or fire:

- Do not use the unit during an electrical storm.
- Do not expose the unit to rain or moisture.
- Do not push any objects into the openings of the unit.

To help protect the unit from sudden, transient increases or decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).

To avoid possible damage to the unit's system board, wait 5 seconds after powering off the unit before restarting.

To avoid shorting the unit when disconnecting a network cable, first unplug the cable from the network port on the back of the unit, and then from the network jack. When reconnecting a network cable, first plug the cable into the network jack, and then into the network port on the back of the unit.

Be sure nothing rests on the unit's cables and that the cables are not located where they can be stepped on, cut, or tripped over.

Do not place the unit on or near flammable materials.

The unit is equipped with a fixed-voltage power supply and will operate at only one voltage (see the regulatory label on the outside of the unit for its operating voltage).

Do not use corrosive chemicals or vapors near the unit.

Do not immerse the power cable or plug in water.
Do not drop the unit.

Before cleaning the unit, disconnect the power supply from the power source.

- Clean the unit with a soft cloth dampened with water.
- Do not spray water directly onto the unit.
- Do not use liquid or aerosol cleaners, which may contain flammable substances.

Compressed gas cylinders and their contents may present specific hazards to the user. Use only in a well-ventilated area. Use only in accordance with the instructions and warnings as marked on the cylinder and the appropriate Material Safety Data Sheet.

Resources

**iNet DS**

The iNet Docking Station Assembly Guide ships with the docking station. It instructs the user in the physical setup of the unit and the initial log-in to the iNet website.

Once setup and log-in are complete, the iNet DS can be configured through iNet Control. Here additional support can be found within help text windows located throughout the site.

**General**

ISC offers classroom training programs on a variety of topics for technicians, operators, first responders, trainers, and distributors. Courses combine theory with hands-on learning, and can be tailored to the customer's unique requirements and gas monitoring applications.

Online training is also available. Fully narrated demonstrations facilitate general learning, and provide step-by-step task-specific instruction.

ISC customer and technical support call centers provide product and order information, "how-to" product assistance, and guidance for in-depth technical applications. Its service centers offer comprehensive factory repair and maintenance services.
iNet DS Assembly Guide

Unpack the iNet DS

The iNet DS box contains those items listed and shown on page 7. Each item should be accounted for in the unpacking process.

After unpacking, if any item is missing or appears to have been damaged, contact a local distributor of ISC products or ISC. For contact information, please see assembly guide section, Contact Information.
### iNet DS Assembly Guide

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<thead>
<tr>
<th>Part Name</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>iNet DS</td>
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<tr>
<td>iNet DS Gas Badge Plus (18108916)</td>
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<tr>
<td>iNet DS Gas Badge Pro (18108915)</td>
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<td>iNet DS MX6 (18108917)</td>
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<td>iNet DS Tango TX1 (18109201)</td>
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<td>iNet DS Ventis MX4 (18108918)</td>
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</tr>
<tr>
<td>iGas tubing and card reader assembly (18105684)</td>
<td>0,1,2, or 3 as ordered</td>
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<tr>
<td>Power supply (17136623); includes plug adapters for North America, Europlug, UK/Ireland, and Australia</td>
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<tr>
<td>Fresh air fitting (factory installed)</td>
<td>1</td>
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<tr>
<td>iNet Docking Station Assembly Guide (not pictured)</td>
<td>1</td>
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</table>
iNet DS Assembly Guide

Hardware Overview

Front

**Feature**

- **Cradle lid** (diffusion model shown open)
- **Cradle**
- **LEDs**
  From top to bottom: green, yellow, and red
- **LCD** (liquid crystal display)
- **Keypad**
  From left to right: left arrow key, enter key, and right arrow key
<table>
<thead>
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<th>Description</th>
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<tr>
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</tr>
<tr>
<td>ZERO AIR</td>
<td>Fresh air/zero grade intake port</td>
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<tr>
<td>iGAS1</td>
<td>Card reader port</td>
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<tr>
<td>Port set 2 for calibration gas</td>
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</tr>
<tr>
<td>CAL GAS</td>
<td>Gas intake port</td>
</tr>
<tr>
<td>iGAS 2</td>
<td>Card reader port</td>
</tr>
<tr>
<td>Port set 3 for calibration gas</td>
<td></td>
</tr>
<tr>
<td>CAL GAS</td>
<td>Gas intake port</td>
</tr>
<tr>
<td>iGAS 3</td>
<td>Card reader port</td>
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<td>12 VDC</td>
<td>Power supply port</td>
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<td>Network port</td>
</tr>
<tr>
<td>USB</td>
<td>USB port</td>
</tr>
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</table>
iNet DS Assembly Guide

Getting Started

Workspace Checklist

✓ Assemble and use the iNet DS in a site location that is known to be nonhazardous.
✓ Do not place the unit on or near flammable materials.
✓ Choose an area that
  - Accommodates the unit and the desired iGas cylinders
  - Is in close proximity to a network connection, a power source, and, if desired, a printer
✓ Do not position the unit where it is difficult to disconnect from the power source.
✓ Mount the cylinder holders to the desired desk or wall location.

NOTE: The supplies shown are used to assemble a unit that will be connected to an iGas zero grade air cylinder and two iGas calibration cylinders; assembly combinations vary. The use of an iGas pressure switch attached to the regulator (as shown) is optional for iNet InSite customers.
Assembly

The iNet DS is readily assembled. Beginning on page 12, detailed instructions are provided to complete:

1. The LAN connection, power on, and startup
2. Configuration for a static connection (if needed)
3. The connection of the iGas cylinders to the unit
iNet DS Assembly Guide

LAN Connection, Power on, and Startup

Step 1

Ensure the Ethernet cord (customer supplied) is plugged into a LAN network connection.

Locate the LAN PORT on the back of the unit and connect the other end of the Ethernet cord into the port.
Step 2

Locate the **12 VDC** port on the back of the unit. Plug the power supply cord into the port.

Connect the appropriate plug adapter to the power supply. Plug the power supply into the power source to power on the unit.

**NOTE:** There is no on/off switch. To power off the unit, disconnect the power supply from the power source.
### iNet DS Assembly Guide

#### Step 3

**Boot Up Screens**

Display briefly to indicate the iNet DS is receiving power; all three LEDs turn on to verify they are functioning.

**NOTE:** If the unit does not power on, check the power connections at each location: the back of the unit and the power source.

#### Step 4

**Starting Screen**

Displays to indicate the iNet DS firmware is initializing; a serial number unique to the unit displays at the bottom of the screen. The yellow LED turns on; a single chirp sounds.

**NOTE:** The serial number is also located on the unit.

→ If the unit is not serialized or is unregistered to the account, some or all of Steps 5-10 may apply.

→ If the unit is serialized and registered to the account, the next display message will match that shown in Step 11; **skip to Step 11.**
### Error Message

<table>
<thead>
<tr>
<th>Step 5 (when applicable)</th>
<th>Step 6 (when applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Not Serialized</strong></td>
<td><strong>System Error (0x00000000)</strong></td>
</tr>
</tbody>
</table>

*Error Message*

Displays to indicate the unit is not serialized.

*Contact ISC Technical Support.*

For contact information, refer to the unit or to the assembly guide section, *Contact Information.*

*Error Message*

Displays to indicate the unit is inoperable.

*Contact ISC Technical Support.*

For contact information, refer to the unit or to the assembly guide section, *Contact Information.*
iNet DS Assembly Guide

Step 7 (when applicable)

Unregistered Mode

Alternately display to indicate the serialized unit is not associated with an account and is unable to access iNet. The serial number displays and the red LED turns on.

Access iNet to register the unit at https://inet.indsci.com.

Step 8 (when applicable)

iNet Log-in Page

Use the log-in credentials that were emailed from ISC.

→ If unable to access the emailed credentials, click on the Contact Us link provided on the log-in page.

→ If the user name is unknown, click on the Forgot your User Name? link provided on the log-in page.

→ If the user name is known and the password is not, click on the Forgot your Password? link provided on the log-in page.
**Step 9 (when applicable)**

**iNet Homepage**

From the **Fleet** tab, choose **Activate an iNet DS Docking Station**.

**Step 10 (when applicable)**

**iNet DS Activation Page**

Locate the unit's **Serial Number (S/N)** and its **Activation Code (A/C)** on the unit's barcode label. Enter the information for each item in the appropriate field.
Step 11: Ready

Docking Station
123.456.321.554

iNet
SN: 101231B-123

Version
5.0.0.1 (MX4)

iNet
SN: 101231B-123

Registered Mode

Alternately display to indicate the unit is registered to an iNet account and is operational.

To access iNet Control, visit https://inet.indsci.com.

Use the log-in credentials that were emailed from ISC.

→ If unable to access the emailed credentials, click on the Contact Us link provided on the log-in page.

→ If the user name is unknown, click on the Forgot your User Name? link provided on the log-in page.

→ If the user name is known and the password is not, click on the Forgot your password? link provided on the log-in page.
Configuration (if needed)

The iNet DS can be configured for a dynamic connection (DHCP) or for a static connection. The default factory configuration is DHCP.

→ For a DHCP connection, no configuration is needed; skip to Step 15.

→ To proceed with a static connection: continue with Step 12.

If the desired connection type is unknown, consult your organization’s network administrator.

Step 12

From any PC that is connected to the LAN network, open the web browser. In the browser’s address field, enter the IP address showing on the docking station display. A security task box will display.
In the security task box:

→ enter the default user name, "iNetDS"
→ enter the default password, "iNetDS"

Click on "OK". The iNet DS Configurator will open.
Step 14

Click on the "Network" tab.

In the Docking Station IP Address task box, select Static Connection from the Connection Type drop-down.

- Additional fields will display within the task box.
- In the fields provided, enter the static IP address to which this unit will be assigned, the subnet Mask Address*, and the Gateway Address*.

If a DNS server is to be used, click on the box next to the DNS Server option; a check mark will appear in the box and additional fields will display within the task box as shown. Enter the addresses for the Primary and Secondary DNS servers*; a secondary DNS address is optional.

Click on “Save & Reboot”.

- If an address cannot be validated, an error message will indicate which address is invalid. Check for and correct any invalid addresses. Click “Save & Reboot” again. (If the user is unable to resolve any errors, contact ISC Technical Support. For contact information, refer to the unit or to the assembly guide section, Contact Information).
- If all address fields are validated, the changes are saved and the unit will reboot.
- A cover sheet will display on the configurator as the unit reboots. It will ask the user to click on a link after the reboot is complete.

*If unknown, consult your organization’s network administrator.
Click on the "iNet Connection" tab.

Determine if the unit will need to access the internet through a proxy server.*

- If the connection does **not** go through a proxy server, click on "Test Connection Settings".
- If the connection does go through a proxy server, click on the box next to "Connect to proxy server"; a check mark will appear in the box and additional fields will display within the task box as shown. Enter the required information* in the fields provided. Click on "Test Connection Settings".

After the connection settings are tested, a message(s) in red type will indicate which field(s), if any, could not be validated. Check for and correct any invalid items. Click on "Test Connection Settings" again. (If the user is unable to resolve any errors, contact ISC Technical Support. For contact information, refer to the unit or to the assembly guide section, Contact Information). When all the edited information is validated, click on "Save".

- If the iNet URL has not changed, all changes are made and the application is not interrupted.
- If the iNet URL has changed, the unit will reboot and the user will be prompted to click on a link when the reboot is completed.

*If unknown, consult your organization’s network administrator.
Connecting the iGas Cylinders

About the Zero Air and Cal Gas Port Sets

iNet DS accepts only compatible iGas cylinders from ISC. The unit recognizes all current compatible calibration gas and zero grade air cylinders.

As shown in the assembly guide section, Hardware Overview, the unit has three port sets. Each port set consists of an air or gas intake port and a corresponding iGas card reader port. The card reader ports are numbered and labeled: iGAS 1, iGAS 2, and iGAS 3. The corresponding intake port is located directly above its card reader port.

Depending on site needs, each port set can be connected for use or left disconnected when not needed.

The ZERO AIR port (port set 1) is set to use either fresh air from the installation site or zero grade air from a compatible iGas zero grade air cylinder.

The CAL GAS port sets (port set 2 and port set 3) are used for calibration gas only. Both port sets can use any compatible iGas calibration gas cylinder. The unit will draw gas(es) from the appropriate cylinder(s) based on the sensor configuration of the installed instrument.
iNet DS Assembly Guide

About the iGas Tubing and Card Reader Assembly

The following figure illustrates which end of the iGas tubing and card reader assembly is attached to the unit and which end is attached to the iGas cylinders. Detailed instructions for proper connection are provided in the assembly guide section, Assembly.

NOTE: When packed at the factory, each assembly features an attached card reader as shown. If needed, reattach the card reader to its connector.
The next step in the assembly process depends on the desired fresh air configuration:

- If the unit will draw fresh air, start with Step 16.
- If the unit will draw zero grade air from an iGas cylinder, start with Step 17.

**Step 16**

Locate the ZERO AIR intake port on the back of the unit. The unit’s factory installed fresh air fitting is attached to the ZERO AIR intake port. If needed, turn clockwise to tighten.

- If the unit will draw only air and will not draw calibration gas, skip to Step 23.
- If the unit will draw calibration gas, skip to Step 19.
Step 17

- Attach the appropriate regulator to the iGas zero grade cylinder.
- Using an iGas tubing and card reader assembly, attach its tubing to the regulator nipple. The nipple fits securely inside the tubing.
- Locate the iGas card that is attached to the zero grade cylinder.
- Slide the card into the assembly's card reader.
- **OPTIONAL:** If the demand-flow regulator is equipped with an iGas Pressure Switch, locate the switch's white plug-in fitting. Insert it into the white female fitting on the side of the card reader; a click will sound.
Step 18

Locate the **ZERO AIR** intake port on the back of the unit.

- Remove the factory installed fresh air fitting from the ZERO AIR port. Turn its threaded white swivel connector counter-clockwise to detach; store the fitting for possible future use.
- Using the iGas tubing and card reader assembly that was attached to the zero grade cylinder in Step 17, attach the tubing’s threaded white swivel connector to the ZERO AIR port. Turn clockwise to tighten.

Locate the **iGAS 1** card reader port on the back of the unit.

- Plug the assembly’s card reader cable connector into the iGAS 1 card reader port. When properly inserted, the arrow on the connector faces up.

  → If the unit will draw only zero air and will not draw calibration gas, **skip to Step 23**.
  → If the unit will draw calibration gas, **continue with Step 19**.
Step 19

- Attach the appropriate regulator to the iGas calibration gas cylinder.
- Using an iGas tubing and card reader assembly, attach its tubing to the regulator nipple. The nipple fits securely inside the tubing.
- Locate the iGas card that is attached to the calibration gas cylinder.
- Slide the card into the assembly’s card reader.
- OPTIONAL: If the demand-flow regulator is equipped with an iGas Pressure Switch, locate the switch’s white plug-in fitting. Insert it into the white female fitting on the side of the card reader, a click will sound.
Step 20

Locate the CAL GAS intake port that is directly above the iGAS 2 card reader port on the back of the unit.

- Using the iGas tubing and card reader assembly that was attached to the calibration gas cylinder in Step 19, attach the tubing’s threaded white swivel connector to the CAL GAS port. Turn clockwise to tighten.

Locate the iGAS 2 card reader port on the back of the unit.

- Plug the assembly’s card reader cable connector into the iGAS 2 card reader port. When properly inserted, the arrow on the connector faces up.

→ If the unit will draw calibration gas from only one iGas cylinder, **skip to Step 23**.
→ If the unit will draw calibration gas from two iGas cylinders, **continue with Step 21**.
Step 21:

- Attach the appropriate regulator to the second iGas calibration gas cylinder.
- Using an iGas tubing and card reader assembly, attach its tubing to the regulator nipple. The nipple fits securely inside the tubing.
- Locate the iGas card that is attached to the second calibration gas cylinder.
- Slide the card into the assembly’s card reader.
- OPTIONAL: If the demand-flow regulator is equipped with an iGas Pressure Switch, locate the switch’s white plug-in fitting. Insert it into the white female fitting on the side of the card reader; a click will sound.
Step 22

Locate the CAL GAS intake port that is directly above the iGAS 3 card reader port on the back of the unit.

- Using the iGas tubing and card reader assembly that was attached to the calibration gas cylinder in Step 21, attach the tubing’s threaded white swivel connector to the CAL GAS port. Turn clockwise to tighten.

Locate the iGAS 3 card reader port on the back of the unit.

- Plug the assembly’s card reader cable connector into the iGAS 3 card reader port. When properly inserted, the arrow on the connector faces up.
When connected, a PCL3-compatible printer will automatically print the results for each bump test and calibration. If a printer connection is desired, locate the USB ports on the back of the unit. Plug the printer’s USB cord (customer supplied) into the unit’s appropriate USB port.

Place the gas cylinders into the desk/wall mounted holders; secure the cylinders with the straps provided.
### Specifications

**Physical Specifications**

**Instruments supported**

GasBadge Plus, GasBadge Pro, MX6 iBrid, Tango TX1, Ventis MX4, MX4 iQuad

**Dimensions**

- iNet DS GasBadge Plus, iNet DS GasBadge Pro, and iNet DS Tango TX1: H: 226.6 mm (8.92”); W: 168.9 mm (6.65”); D: 273.1 mm (10.75”)
- iNet DS Ventis MX4 / MX4 iQuad: H: 249.7 mm (9.83”); W: 168.9 mm (6.65”); D: 273.1 mm (10.75”)
- iNet DS MX6: H: 253.0 mm (9.96”); W: 168.9 mm (6.65”); D: 273.1 mm (10.75”)

**Gas inlets**

One zero (or fresh) air, two calibration gas

**Pump flow rate**

1.0 SCFH (500 mL/min)

**Communication**

On-board LEDs give status indication; multilingual LCD display.

**Internal memory**

Memory retains information when power is off.
### Performance Specifications

**Operating temperature range**

0°C to +40°C

**Operating humidity range**

0% to 80% relative humidity (RH) up to 30°C, decreasing linearly to 50% RH at 40°C

**Installation category**

2

**Pollution degree**

2

**External power supply ratings**

- Supply voltage: 120-240 VAC
- Frequency range: 50-60 Hz
- Current rating: 5A
iNetDS Warranty and limitation of liability

Warranty

Industrial Scientific Corporation’s iNet DS Docking Stations are warranted to be free from defects in material and workmanship for one year.

Limitation of Liability

INDUSTRIAL SCIENTIFIC MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

SHOULD THE PRODUCT FAIL TO CONFORM TO THE ABOVE WARRANTY, BUYER’S ONLY REMEDY AND INDUSTRIAL SCIENTIFIC’S ONLY OBLIGATION SHALL BE, AT INDUSTRIAL SCIENTIFIC’S SOLE OPTION, REPLACEMENT OR REPAIR OF SUCH NON-CONFORMING GOODS OR REFUND OF THE ORIGINAL PURCHASE PRICE OF THE NONCONFORMING GOODS.

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It shall be an express condition to Industrial Scientific’s warranty that all products be carefully inspected for damage by Buyer upon receipt, be properly calibrated for Buyer’s particular use, and be used, repaired, and maintained in strict accordance with the instructions set forth in Industrial Scientific’s product literature. Repair or maintenance by non-qualified personnel will invalidate the warranty, as will the use of non-approved consumables or spare parts. As with any other sophisticated product, it is essential and a condition of Industrial Scientific’s warranty that all personnel using the products be fully acquainted with their use, capabilities and limitations as set forth in the applicable product literature.

Buyer acknowledges that it alone has determined the intended purpose and suitability of the goods purchased. It is expressly agreed by the parties that any technical or other advice given by Industrial Scientific with respect to the use of the goods or services is given without charge and at Buyer’s risk; therefore, Industrial Scientific assumes no obligations or liability for the advice given or results obtained.
iNet DS Assembly Guide

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