# Metro® AccessPoint™ Mobile Computing System Operator Manual

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**Revision 1.0**

METRO®

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Commercial & Residential Solutions

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# 1 Introduction to AccessPoint™ Mobile Computing System Workstations

# Introduction

Metro AccessPoint™ has been designed to provide an unmatched user experience to both caregivers and IT professionals. Using a scalable platform, with an array of new ergonomic features and next-generation power options, the workstation provides comfort and convenience for any worker with unparalleled flexibility for long-term value.

All Metro AccessPoint workstations include these features.

- Expandable multi-layer technology tray allows customers to utilize larger scale 17" laptops and future expansion of PC technology or accessories.
- Monitor mount supports a wide variety of display options, including touch screens, all-in-one computers and monitors up to 20 lbs.
- Power supply provides both fan and fan-less charging options as well as ability to perform battery-only upgrades in the future.
- Keypad controller allows customers to easily power the computer on and off without IT involvement while providing access to battery level and lighting controls.
- Ergonomic keyboard tray provides 10° of positive tilt, 20° of negative tilt, 180° of rotation and 8" of independent height adjustment.
- LED lights illuminate work surface and keyboard to provide ample lighting when working in a patient room during night hours.
- Height adjustment mechanism provides strain-free adjustment for a keyboard height range of 23"- 48".
- Easy roll casters provide maximum maneuverability in tight spaces and over thresholds.
- Integrated footrest allows users to relax in a more ergonomic position throughout the day.

These options are also available on selected AccessPoint Configurations:

- Electronic Lifter
- BatteryPro Software
- Dual Monitors
- Ergonomic Push Handles
- SecureRx Medication Module

Work surface

Work Surface
LED Light

Keypad Controller

Height
Adjustment
Handle

Keyboard Tray

Keyboard Tray
LED Light

Integrated
Footrest

Casters

Monitor
Mount

Expandable
Technology Tray

Push Handle

Column

Power Cord

Power Supply
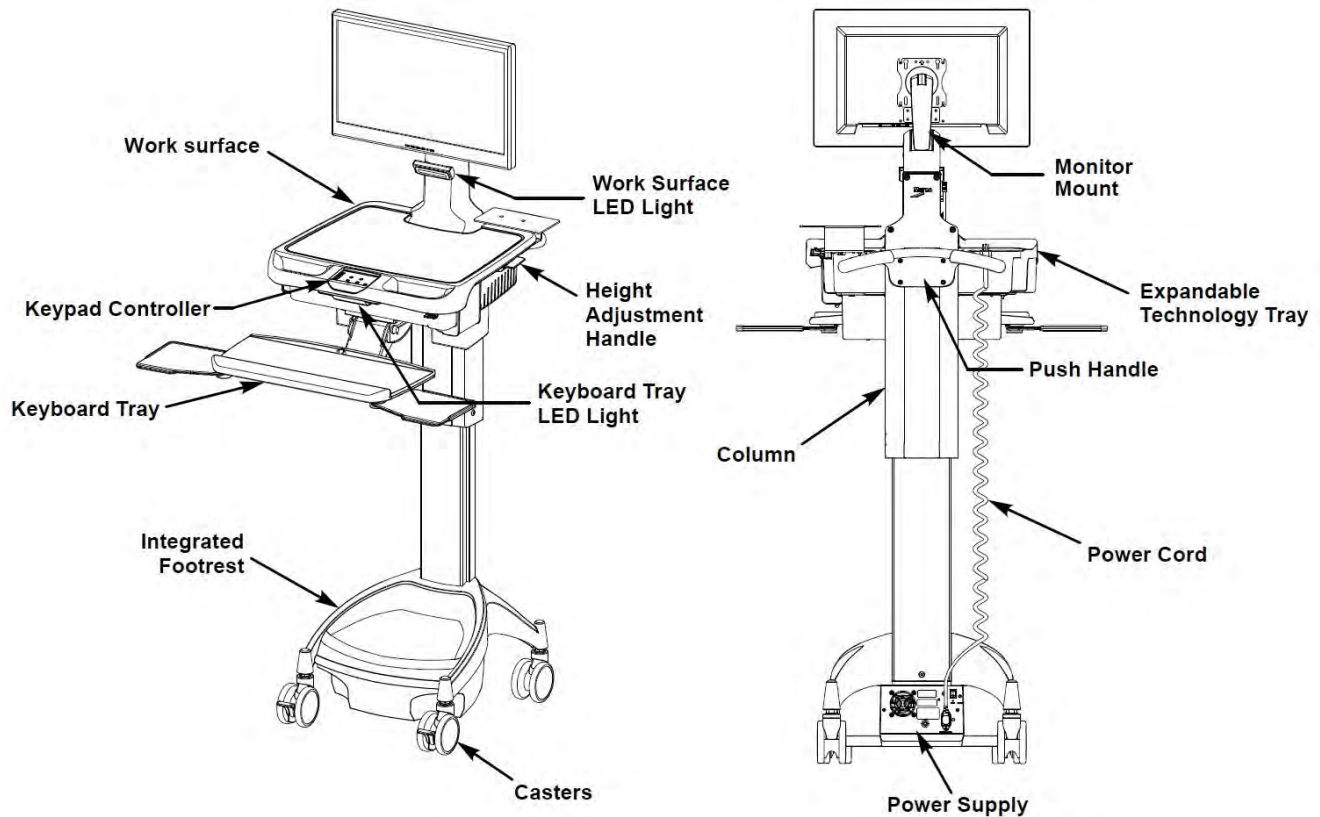
## Equipment Classification

The Metro AccessPoint Mobile Computing Workstation is Intertek certified with respect to electric shock, fire and mechanical hazards only in accordance with UL 60601-1 and CAN/CSA 22.2 No. 601.1 as Patient Care Medical Equipment suitable for use in patient vicinities.

The Mobile Computing Workstation is Class I Equipment that is also internally powered.

According to the degree of protection against ingress of water, the Mobile Computing Workstation is considered ordinary.

The Mobile Computing Workstation is suitable for continuous operation.

## Important Product Notices

The Power Supply used with the Metro AccessPoint Mobile Computing Workstation is provided with a "Hospital Grade" or "Hospital Only" attachment plug for connection to the AC supply circuit.

To ensure equipment grounding reliability, the Power Supply used with the Metro AccessPoint Mobile Computing Workstation should only be connected to AC outlet receptacles, which are marked "Hospital Grade" or "Hospital Only".

Where the integrity of the external protective earth connector arrangement is in doubt, equipment shall be operated from its internal electrical power source.

## Important Safety Instructions for Installers

Metro AccessPoint is available as a fully integrated workstation. When selecting a fully integrated AccessPoint, Metro integrates all computer equipment to comply with rules and regulation of the Intertek certification and delivers a fully functional cart at the customer's site. When a customer does not choose a fully integrated AccessPoint, Metro delivers the core AccessPoint cart and the customer is responsible for integrating their computer equipment.

For safe operation and compliance with the Intertek certification, the installer needs to follow these instructions:

All technology equipment added to the cart must be listed with a Nationally Recognized Test Lab (NRTL) for use in the United States; carry a CE Mark for use in Europe; or carry the appropriate approval marks for the country of intended use.

The maximum continuous output power of a DC system is 150 W and 200 W for a maximum duration of 5 minutes.

The maximum continuous output power of an AC system (use of the AC inverter) is 135 W and 180 W for a maximum duration of 5 minutes.

The base cart is equipped with a Multiple Portable Socket Outlet (MPSO). No additional MPSOs or extension cords shall be used.

⚠ The weight of the monitor shall not exceed 20 lbs. In case of dual monitors, the weight of both monitors combined shall not exceed 20 lbs.

⚠ The combined weight of the computer equipment (computer, monitor, keyboard, auxiliary equipment, etc.) shall not exceed 35 lbs.

⚠ Not following the above instructions and altering of the base cart will void the Intertek certification and is expressly prohibited by InterMetro Industries Corporation.

# Disposal

**NOTICE** For batteries recycling/disposal in the United States and Canada, contact Call2Recycle.

**NOTICE** For other countries, batteries must be recycled/disposed of in compliance with local regulations.

**NOTICE**
Contact InterMetro service for product repair or battery replacement. Use of unauthorized service or batteries will void warranty, damage equipment, affect performance. C05-1100

# Intended Use

The Metro AccessPoint™ mobile computing workstation was designed to be safely used within general patient areas for the purpose of clinical data entry and retrieval. The AccessPoint workstation complies with UL 60601-1 electromagnetic leakage and safety requirements if operated according to the guidelines covered in this manual.

## Chapter Content

This manual is organized into the following chapters:

**1 Introduction –** Provides instructions to access the system and safety information.

**2 Getting Started –** Provides instructions to unpack and setup your workstation. Includes instructions on setting up Wake on LAN/Wake on Power.

**3 Workstation Operation Overview –** Describes general workstation operation, options.

**4 BatteryPro Software –** Describes the software application.

**5 Maintenance and Storage –** Describes operation maintenance and storage information.

**Appendix A Troubleshooting –** Provides basic troubleshooting information.

**Appendix B Accessories –** Includes the user-orderable accessories parts list.

**Appendix C Technical Specifications –** Includes the AccessPoint workstation technical specifications.

**Appendix D Warranty Information –** Provides Metro Warranty information.

## Illustrations

All illustrations in this manual are provided as examples only. Screens shown in this manual do not necessarily reflect or emulate your exact patient data or the precise appearance of your screen.

In this manual, all names appearing in examples and illustrations are fictitious. The use of any real person's name is purely coincidental.

## Conventions

This manual is written with certain conventions designed to make the information understandable and readable. Please familiarize yourself with the following:

- Items in **Bold** text are buttons or switches on the equipment, keyboard keys, or text to be entered.

- *Italicized* items are buttons, labels, options or other fields within the software application.

- References to **Enter** require pressing the **Enter** or **Return** key on the keyboard. Do not type the word enter.

- A keystroke combination is displayed as two key names with a plus sign between them. It requires holding down one key while pressing another key on the keyboard. For example, Press **Ctrl + Enter** means hold the **Ctrl** key while pressing the **Enter** key.

- References to the space bar appear as <**Space**>. The brackets remind you to press the space bar. Do not type the word space.

- References to *click* can be also be performed by touching the touchscreen.

# Safety Information

## Regulatory Compliance

This system was tested and complies with UL 60601-1, CAN/CSA C22.22 No.601.1 and IEC/EN 60601-1-1 medical safety standards.

The product is certified by Intertek with respect to electrical shock, fire and mechanical hazards only in accordance with UL 60601-1, CAN/CSA C22.22 No.601.1 and IEC/EN 60601-1-1 as Patient Care Medical Equipment suitable for use in patient vicinity.

**Attention**: Consult accompanying documents.

## Important Safety Instructions

This section contains important safety and operating instructions for AccessPoint workstation. Please read all instructions on the workstation before putting into service.

**DANGER** AccessPoint workstation and the power supply are not for use in hazardous (classified) locations. Do not use nor recharge the power supply battery in oxygen enriched areas; areas where flammable anesthetics are used or stored; or any other hazardous, classified location.

**CAUTION** User maintenance consists solely of cleaning and minor external adjustments. For safety purposes, all servicing must be performed by qualified service personnel only. For all service items, contact InterMetro Customer Service.

**CAUTION** Do not operate the AccessPoint workstation if it has received a severe impact or has been otherwise physically damaged. Have a qualified service person inspect both the AccessPoint workstation in conjunction with its power supply for any performance or safety hazard prior to putting back into service.

**CAUTION** To prevent damage to any cords or connectors when disconnecting, always grasp and pull by the connector and not the cord. Do not operate the AccessPoint workstation with damaged cords or connectors. Replace the damaged component immediately. Contact InterMetro Customer Service for replacement parts and service.

**CAUTION** Risk of Electric Shock - The AC power cord is the only means to disconnect the power supply and AccessPoint workstation from the AC power grid (mains). The ON switch on the power supply does not disconnect from main power.

On the other side, the power supply employs a Li-Nano, SLA, LiFe batteries to provide mobile DC output power. Low voltage (10-16 VDC) DC power is available from the power supply even when the AC cord is disconnected from an AC outlet. To remove DC power, put the ON switch in the (OFF) position.

**CAUTION** The maximum design load (safe working load limit) for the AccessPoint workstation is 5 lbs.(2.2 kg.).

**NOTICE** The receiver of this product is responsible for freight damage claims.

◆ This equipment must be opened immediately for inspection.

◆ All visible damages must be reported to freight co. within 48 hours, and must be noted on freight bill at time of delivery.

◆ Concealed damage is your responsibility - you must advice carrier of any loss or damage within 15 days after receipt of material.

◆ If there is damage, retain original packaging for inspectors.

# Notes

**NOTE**
**For products that have or could have casters (without grease fittings)**
Regularly inspect this product. Tighten loose fasteners and replace worn or damaged parts with new InterMetro approved parts. For mobile units, regularly inspect casters and replace worn or damaged casters immediately.

**NOTE**
**For products that have or could have casters (with grease fittings)**
Regularly inspect this product. Tighten loose fasteners and replace worn or damaged parts with new InterMetro approved parts. For mobile units, regularly inspect casters and replace worn or damaged casters immediately; lubricate casters regularly (if equipped with grease fittings).

**NOTE**
**For products that do not have casters**
Regularly inspect this product. Tighten loose fasteners and replace worn or damaged parts with new InterMetro approved parts.

# FCC Information

**WARNING** Changes or modifications to this device not expressly approved by InterMetro Industries Corporation could void the user's authority to operate this equipment. Shielded cables must be used with this unit to ensure compliance with the FCC Class A limits.

This device complies with FCC Rules, part 15. Operation is subject to the following conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference that may be received, including interference that may cause undesired operation.

**NOTICE** **This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user's expense.**

# Industry Canada

This class A digital apparatus meets all requirements of the Canadian Interface Causing Equipment Regulations. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

## Safety Labels
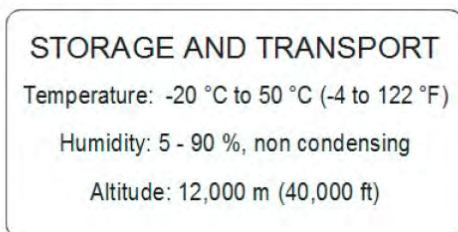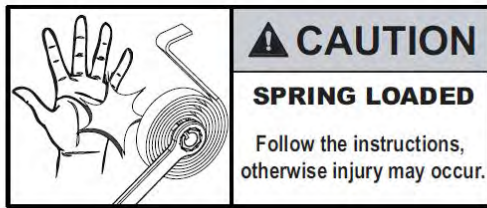


# Revision History

Each page of the original operator manual shipped with your system has a revision letter on it. As the document is updated, the revision letter is changed.

| Revision | Date | Comments |
|---|---|---|
| 1.0 | 08/30/2013 | Initial release of AccessPoint Mobile Computing System Workstations. |

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# 2    Getting Started

# Getting Started with the Workstation

## Unpacking

The AccessPoint workstation will arrive fully assembled and fully functional at the customer's site (most accessories do not ship assembled to the workstation). After cutting the strapping bands, lift the top of the box over the workstation. In order to avoid any injury, two (2) people should lift the workstation from the padding blocks.

## Inspection

After the AccessPoint workstation has been unpacked, inspect the unit for any shipping damage. If there is any damage, contact InterMetro Customer Service immediately.

## Shipment of Power Supply

**CAUTION**
Before placing the Power Supply (Li-Nano, SLA, LiFe) into service on a AccessPoint workstation, the power supply batteries may need to be connected. Depending on the shipment, they may or may not be connected due to USDOT and IATA regulations.

The Power Supply is available in 3 battery chemistry options. Depending on the battery chemistry, the preparation of the shipment is different.

### Lithium Iron Phosphate Battery (LiFe)

The LiFe Battery can be connected or disconnected and requires a fully regulated Class 9 shipment in any shipping mode. The shipper must be certified for Li-Ion Class 9 shipments. The power supply must be shipped per "UN3481, Lithium ion batteries contained in equipment" on cargo aircraft only.

The power supply contains one battery pack. Ratings below given per battery pack:

◆ Battery weight: 7.33 kg

◆ Wh rating: 512 Wh

◆ Equivalent Li Content (ELC): 48 g

# SLA

The SLA battery is not considered a Hazardous Material (Dangerous Goods) and there is no restriction on shipping the SLA batteries.

# Lithium Iron Nanophosphate Battery (Li-Nano)

### Non Class 9 Shipment

In the USA the Li-Nano batteries can be disconnected from the power supply for a regular Ground shipment. The shipping container must have the following marking:



### Class 9 Shipment

Outside the USA in any shipping mode and air or sea transport inside the US, the power supply must be shipped as fully regulated Class 9 (Hazardous Material / Dangerous Goods). In this shipping mode the batteries can be connected or disconnected. The shipper must be certified for Li-Ion Class 9 shipments. The power supply must be shipped per "UN3481 Lithium ion batteries contained in equipment" on cargo aircraft only.

Typically, a power supply contains two battery packs. Ratings below given per battery pack:

◆ Battery weight: 2.75 kg

◆ Wh rating: 264 Wh

◆ Equivalent Li Content (ELC): 24 g

# Connect the Power Supply Batteries

First plug in power supply and check the status of battery on fuel gauge LED. If the LED flashes as shown in figure below, then connect the batteries
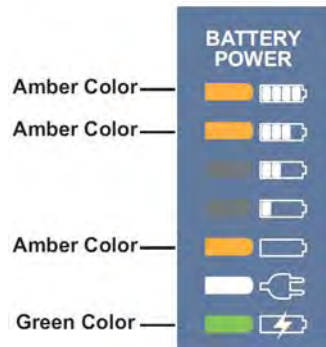


### CAUTION
Only qualified service personnel should perform the following procedure for connecting the power supply batteries.

### CAUTION
To prevent damage to any cords or connectors when disconnecting, always grasp and pull by the connector and not the cord.

**NOTICE**

The battery cells may or may not be connected during shipment due to USDOT and IATA regulations. The procedure is required immediately after unpacking before powering up and using the workstation for the first time.

1. Ensure the AC cable is disconnected from the wall outlet and power supply is in OFF (down) position.
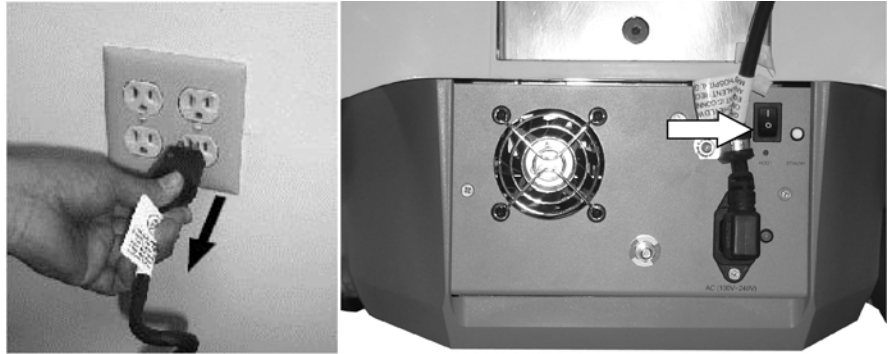


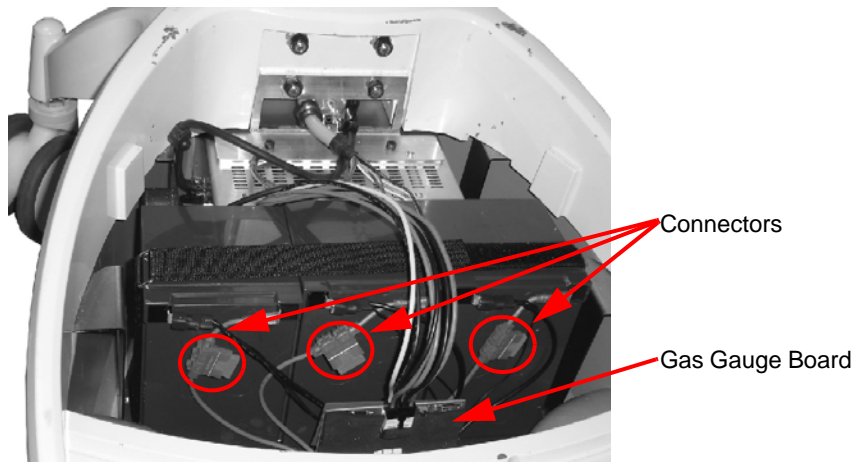2. Loosen and remove mounting screws (2x) from bottom of base cover as shown below.



   a. Li-Nano Power Supply Batteries: Plug both connectors to the Li-Nano batteries and check for accuracy.
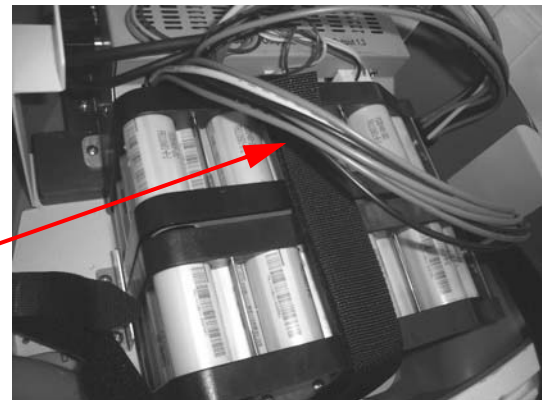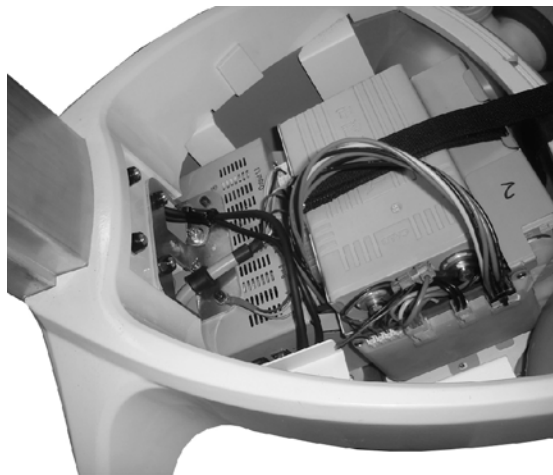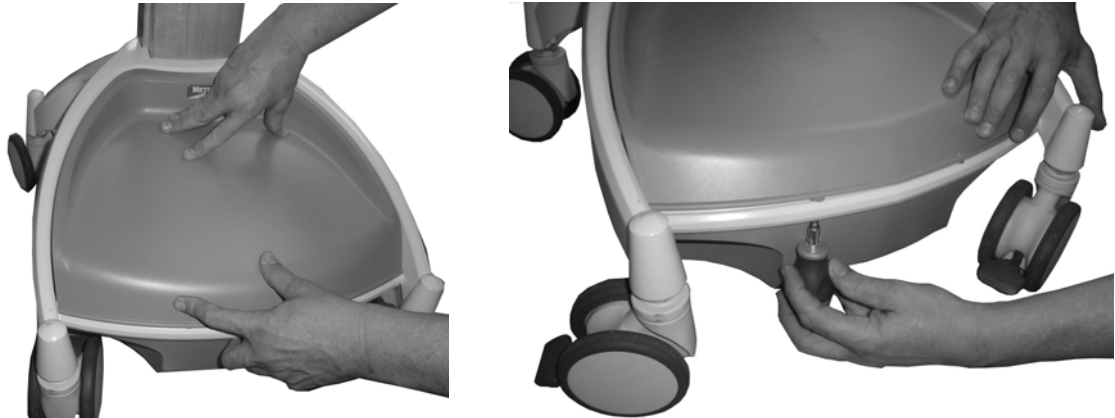


Connectors

b.  SLA Power Supply Batteries: SLA batteries are always shipped connected as shown below.



c.  LiFe Power Supply Batteries: Plug the connectors to the LiFe batteries and check for accuracy.

3.  Install base cover and tighten the screws (2x) as shown below.



# Charge Power Supply Battery

**NOTE**

The workstation's electrical connections to the monitor, keyboard and technology tray must be made per the AccessPoint Workstation Wiring Diagram. Contact Metro Service for the most current wiring diagram.

Before placing an AccessPoint workstation into service for the first time with the Li-Nano, SLA, LiFe power supply, the power supply battery should be initially charged at least 8 hours. To charge the battery, plug the coiled AC power cord into an AC outlet and put the ON/OFF switch into the "ON" position which is located on the back of power supply as shown below.
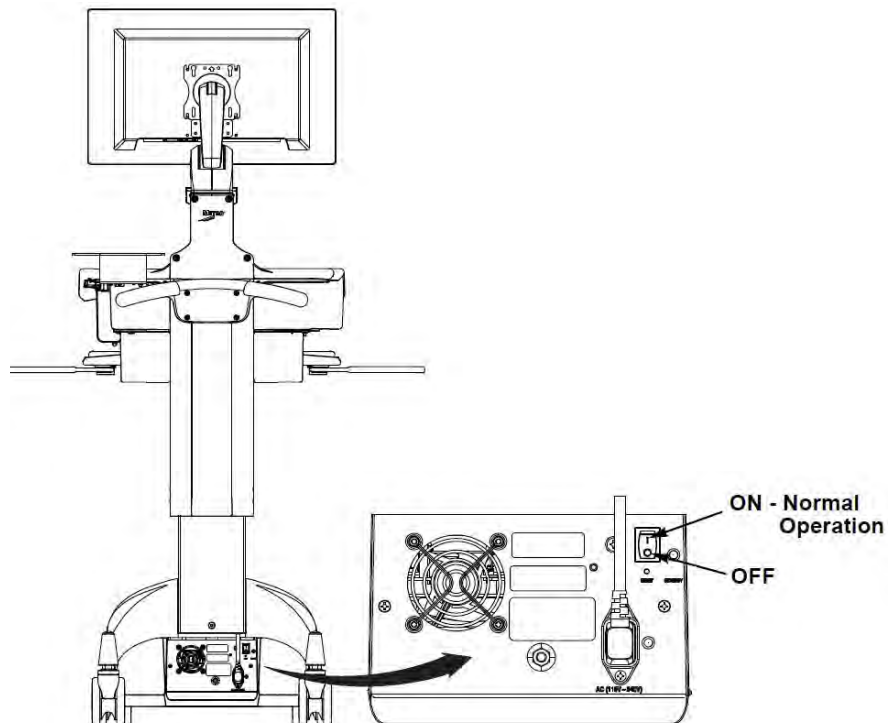
In the "ON" position, the power supply provides power to the AccessPoint workstation. If the workstation is not being used for an extended period of time, the ON/OFF switch should be put in the OFF position. The switch position disconnects the battery from any internal or external equipment and avoids deep discharges of the battery, which can cause damage to the battery.

**WARNING**

Risk of Electric Shock - The power supply employs a Lithium Iron Nano-Phosphate (Li-Nano) battery to provide mobile DC output power. Low voltage (11-15V) DC power is available from the power supply even when the AC cord is disconnected from an AC outlet. To remove DC power, put the ON/OFF Switch in the "OFF" position.

**NOTE**

After the initial charge, the charge time from a completely discharged battery is typically **2 hours** in fan mode and **3 hours** in fan less mode with LiFe and Li-Nano and **4 hours** for SLA regardless of fan mode.

**NOTE**

If the Power Supply has been switched to "OFF" for more than **1 week**, connect the workstation to AC to wake up the power supply before.

# Computer Power Tips and Cable Connections

| Computer Power Tips | | | | | | | |
|---|---|---|---|---|---|---|---|
| Tip No. | Metro P/N | Voltage | Computers | Tip No. | Metro P/N | Voltage | Computers |
| MT2 | C13-957 | 12V | Praim XP9400-A, Thin Client | MT41 | C13-523 | 19V | Acer Veriton Z2610, All in One |
| | | | Praim I10, Thin Client | | | | AOPEN DE5100, Mini PC |
| | | | IGEL UD3, Thin Client | | | | Lenovo M72 Tiny, Mini-PC |
| | | | IGEL UD5, Thin Client | | | | Lenovo M92 Tiny, Mini-PC |
| | | | IGEL H700C, Thin Client | | | | Nexlink Mini X11, Mini-PC |
| | | | Motion Computing C5, Tablet | | | | Tangent Rugged Mini VI (Bar 106), Mini-PC |
| | | | Wyse C90LE, C90LEW, C90LEW7, Thin Client | | | | Tangent Rugged Mini UT, Mini-PC |
| MT2 | C13-957 | 16V | Panasonic H2, Tablet | | | | Tangent Rugged Mini N, Mini-PC |
| MT5 | C13-632 | 19V | HP t510, Thin Client | | | | Tangent Vita LT, All in One |
| | | | HP t5565, Thin Client | | | | Tangent Vita 2000SA, All in One |
| | | | HP t5740, Thin Client | | | | Wyse D90D7, Thin Client |
| | | | Seneca MP-57, Mini-PC | | | | Wyse R90L, R90LW, Thin Client |
| | | | Tangent Medix T19B, All in One | | | | Wyse V90LE, V90LEW, Thin Client |
| | | | Tangent Medix T19i, All in One | | | | Wyse Z90LE, Z90LEW, Z90D7, Z90DW, Z90SW, Thin Client |
| | | | Tangent Medix T22a, All in One | | | | Zotac ZBOX HD-ID40, Mini-PC |
| | | | Tangent Medix T22i, All in One | MT44 | C13-482 | 19V | All Lenovo Laptop computers |
| | | | Tangent Rugged Mini 965, Mini-PC | MT55 | C13-484 | 19V | All HP Laptop computers |
| MT23 | C13-483 | 19 V | All Dell E Series laptop computers | MT41 | C13-523 | 16V | Panasonic H1, Tablet |
| MT41 | C13-532 | 12V | Tangent Rugged Mini I, Mini-PC | | | | Panasonic CF-51, Laptop |
| | | | Tangent Rugged Mini VA, Mini-PC | | | | Panasonic T7, Laptop |
| | | | VXL Itona F24, Thin Client | | | | Panasonic CF-18, Laptop |
| | | | | | | | Panasonic CF-19, Laptop |

| Tip Dimensions | | |
|---|---|---|
| Tip # | Tip P/N | Tip Size |
| MT #2 | C13-957 | ID 2.10 mm, OD 5.50 mm & 11.00 mm long |
| MT #5 | C13-632 | ID 1.60 mm, OD 4.80 mm & 11.00 mm long |
| MT #23 | C13-483 | ID 5.00 mm, OD 7.40 mm & 12.50 mm long |
| MT #41 | C13-532 | ID 2.50 mm, OD 5.50 mm & 12.50 mm long |
| MT #44 | C13-482 | ID 5.45 mm, OD 7.90 mm & 11.50 mm long |
| MT #55 | C13-484 | ID 5.00 mm, OD 7.40 mm & 12.50 mm long |

| Computer Power Cables | | |
|---|---|---|
| Metro P/N | Voltages | Computer |
| C13-781 | 19V | HP 7800, 7900, 8000, 8200, 8300 USDT Computer |
| | | HP t610, Thin Client |
| | | HP 6000, 6300, 8200, 8300 ELITE, All in One |
| 402049 | 12V | Tangent Medix 1500, 1700SF, 1900SF, All in One |
| 402384 | 19V | Tangent Rugged Mini GM, Mini-PC |
| 402743 | 19V | Tangent Rugged Mini VI (Bar 105), Mini-PC |
| | | Tangent Vita 2150, All in One |
| | AC | Dell Optiplex 780/790/7010/9010, USFF |
| | | Dell FX-160, Thin Client |
| | | HP 6300/8300 Elite, All in One |
| | | Lenovo A70Z, M71Z, M72Z, All in One |

# Configure Selectable Voltages

1.  Request a link from Intermetro Customer Service to download BatteryPro400.

2.  Install BatteryPro400 on a laptop computer to change the voltage(s).

3.  Connect the computer to via USB to the power supply.

4.  Start BatteryPro400 and right click on the BatteryPro400 icon (grey battery icon).



5.  Select "Open Power Properties".

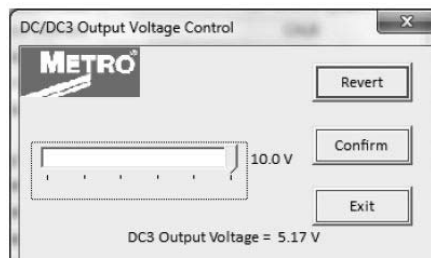6.  Hold down the CTRL key and click on the METRO label as shown below. The Diagnosis tab opens.



7.  In order to change the selectable voltage on Diagnosis tab:

    ◆ Click on "DC1 Setting" for 12-24 V (DC1) or

◆ Click on "DC3 Setting" for 5-10 V (DC3).
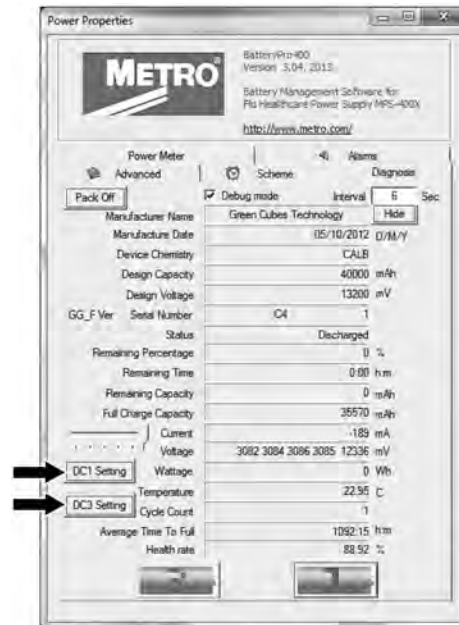


8. With the slider select the desired voltage. After selecting the voltage click "Confirm."

9. To confirm the voltage change, click "YES" as shown.



DC 1 Setting
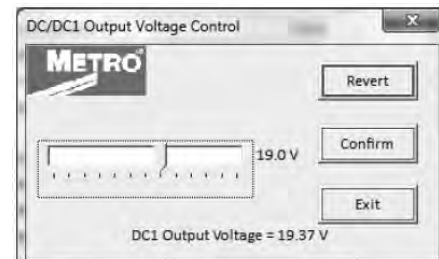


DC 3 Setting
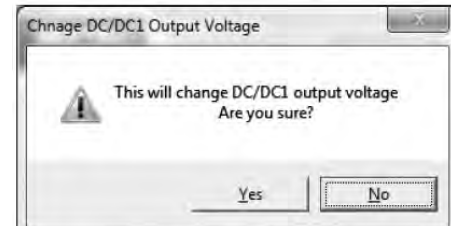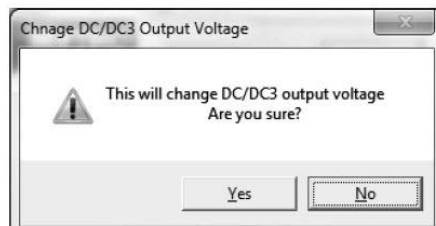
# Integration

## Remove Work Surface

1. To open the work surface, rotate the key in clockwise direction 90° as shown below.
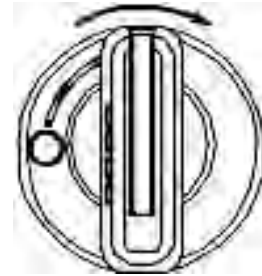


2. Slightly lift up the front of the work surface as shown below.



3. Slide the work surface towards the front of the workstation and then remove the work surface from the technology tray.
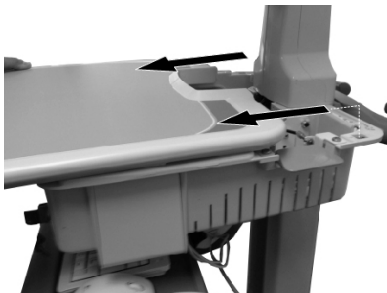
# Technology Tray

The expandable tech tray cover is integrated with tech tray to allow easy expansion of a 17" laptop or accessories. The cover can be accessed from the left side of the workstation to integrate future upgrades.
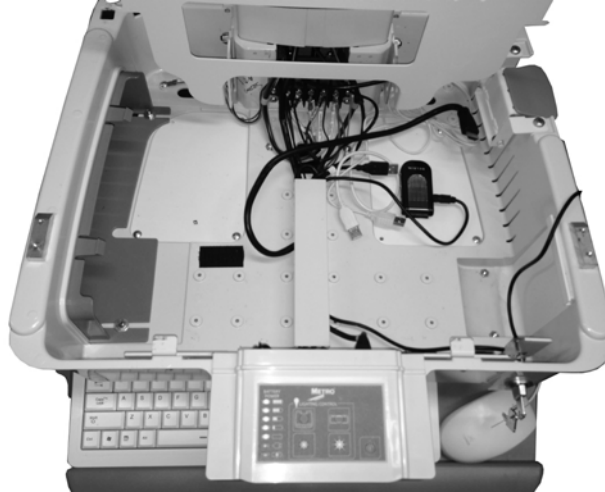


Following table gives keypad connections in technology tray and identifying connections.

| Keypad Connection | Description |
|---|---|
| Wake on LAN (RJ45) | Ethernet CAT5 cable to computer for Wake on LAN operation |
| Fuel Gauge | Ethernet cable from the power supply to display charge level of battery |
| Power Lifter | Connection to power lifter (if equipped) |
| Work surface light | LED light for work surface |
| Keyboard light | LED light for Keyboard |
| Wake on LAN Power | Plug for Computer power cable, when using Wake on LAN to turn on computer |
| Wake on Power | Plug for Computer power cable, when using Wake on Power to turn on computer |

Following table gives respective wire connections in technology tray terminal block and identifying connections.

| Position | Designation | Color | Description |
|---|---|---|---|
| Mounting Screw (MS) | Chassis Ground | Green | Chassis ground connection to connect the top and bottom metal structure of the workstation |
| 1 and 2 | Return (-) | Black | Workstation power return wire. |
| 3 | Unregulated | Yellow | Unregulated output voltage of the power supply.<br>10.5 - 15 V, 150 W continuous, 200 W peak power |
| 4 | Selectable 12-24 V | White | Voltage is selectable via BatteryPro between 12 and 24 V. 150 W continuous and 200 W peak power, Default voltage is 19 V |
| 5 | Selectable 5-10 V | Red | Voltage is selectable via BatteryPro between 5 and 10 V. 2 A maximum current. Default voltage is 5 V. |
| The total power of the power supply is 150 W continuous and 200 W peak. | | | |
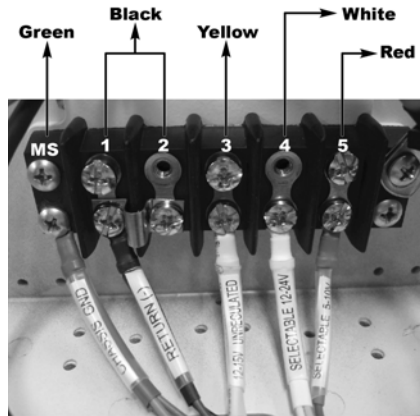
The following table gives wire connections between Terminal Block and AC Inverter and identifying connections.

| Terminal Block | AC Inverter |
|---|---|
| Position 3, Unregulated Voltage, Yellow | Positive (Red) |
| Position 1 or 2, Return (-), Black | Negative (Black) |

## AC Inverter Technical Specifications

- Output voltage: 120 VAC, 60 Hz
- Output power: 150 W
- Modified Sinewave
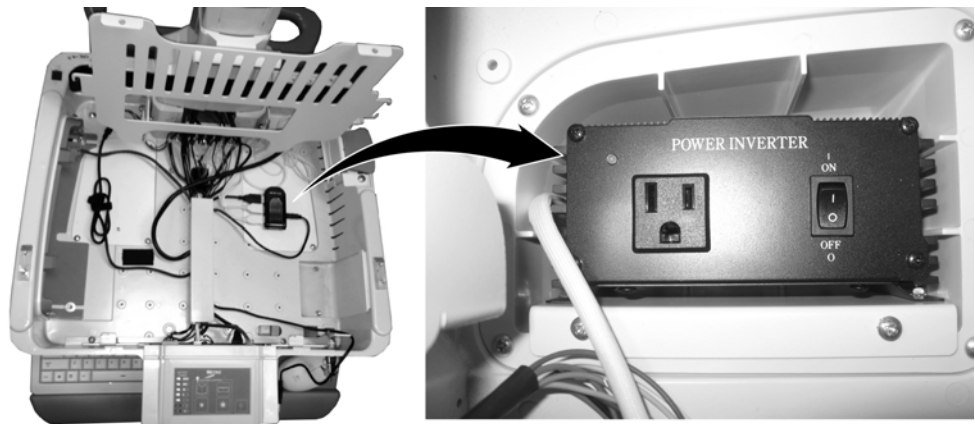
## Set up a Computer in the Technology Tray

1. The technology tray offers a computer tray with rubber padding. Seat the computer on the tray and tie it down with the Velcro strap.

2. Computer power with DC

   a. Select correct tip for the computer (see "Computer Power Tips and Cable Connections" on page 2-9).

   b. Connect computer power cable to the terminal block.

      ◆ Positive lead to "Selectable output voltage 12-24 V" (Position 4, white)

      ◆ Negative lead to Return (-) (Position 1 or 2, black)

   c. Set the power supply to the correct computer voltage (see "Computer Power Tips and Cable Connections" on page 2-9), if the voltage is different from 19 V using BatteryPro.

   d. Plug in Computer Power Tip into the Computer Power Cable.

   e. Plug in computer.

3. Computer power with AC

   a. Plug in AC adapter in outlet strip

   b. Stow AC adapter in left pod

   c. Plug in computer

4. Plug video cable into the computer (Display port, mini display port, HDMI, mini HDMI, VGA). Use adapter cable if necessary.

5. Connect accessories like USB hub, mouse, keyboard, barcode scanner, etc. to the computer.

## Set up Powered USB Hub

1. Setting up for DC

   a. Attach ring terminals to the USB hub power cable or use USB power cable (provided by Metro).

   b. Connect USB power cable to terminal block

   c. Positive lead to "Selectable output voltage 5-10 V" (Position 5, red)

   d. Negative lead to Return (-) (Position 1 or 2, black)

   e. Check that the selectable voltage (red, position 5) is 5 V. If not,

change the voltage to 5 V using the BatteryPro software.

    f.   Plug USB power cable into the USB hub.

2.   Setting up for AC

    a.   Plug the USB hub's AC adapter in the AC outlet strip.

    b.   Plug in the AC adapter's DC output into the hub.

# Cable Management

1.   Lift computer tray (with or without computer tied down) and secure with pin for easy access.

2.   For a clean look inside the technology tray, stow excess cabling and AC adapters into the pods.

3.   Keep all wiring underneath the computer tray.

4.   Hide wiring in the wire conduit running through the center of the technology tray.

5.   Attach white anchors as required and tie down loose wires or cables for a dressed up look.
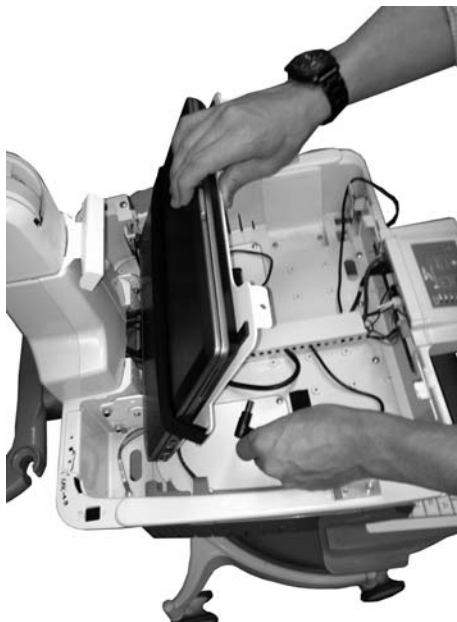
# Setup Keyboard and Mouse

1. Place the keyboard on the keyboard tray and attach a cable tie mount to the keyboard tray allowing enough slack for the mouse to reach both left and right mouse pads effectively. Use a small zip tie to secure the cables to the cable tie mount as shown below.

Cable tie mount

2. Attach a second cable tie mount to the back of the keyboard tray as shown below. This prevents the wiring from interfering with the keyboard arm while maneuvering.

3. Provide enough slack in the wiring for the keyboard arm to pivot 90 degrees from the center home position and attach a cable tie mount on the bottom of the technology tray.

   **NOTE**

   Before attaching the cable tie mounts to the technology tray, clean the area where you intend to apply it to with a alcohol prep in order

to get a permanent bond with the exterior coating.



View from Bottom
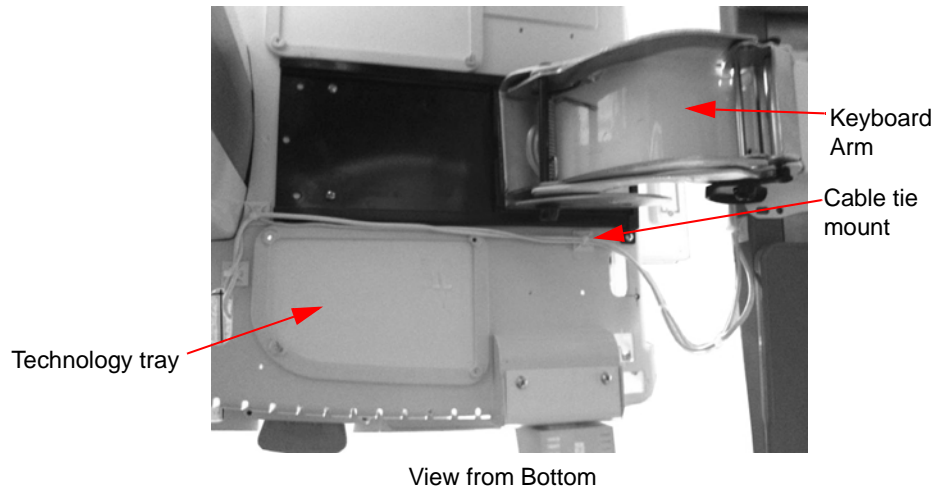
4. Another two set of cable tie mounts are attached at the back of the technology tray as shown below:

◆ First cable tie mount guides the wire between the keyboard arm track and the storage pod and

◆ Second cable tie mount lines it up with the wiring slot to be accessed inside the technology tray and connected to the USB hub.

◆ The wire should be relatively tight to prevent any snags or interferences.
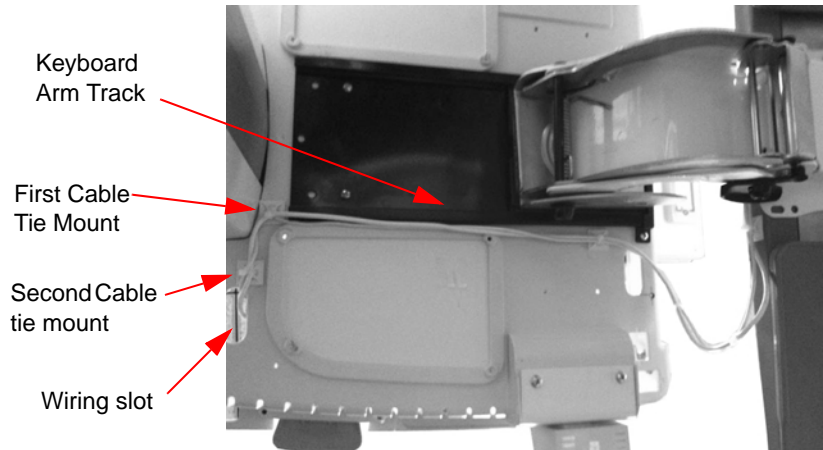
5. Route the wires inside the technology tray and connect the USB keyboard and mouse wires to USB hub. Finally connect USB hub to CPU as shown below.



Wiring Slot

USB Hub
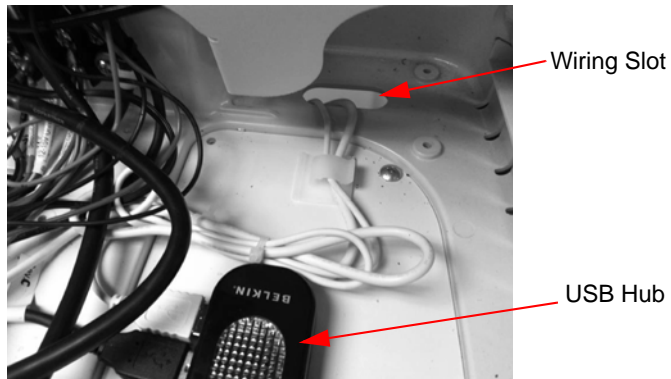
# Set up the Monitor

1. Setup for DC

   a. Connect the monitor power to the terminal block

   b. Positive lead to "Unregulated voltage" (Position 3, yellow)

   c. Negative lead to Return (-) (Position 1 or 2, black)

2. Setup for AC

   a. Connect the AC adapter or AC cord into AC outlet strip.

   b. Stow away AC adapter or excess cable in the left pod.

3. Connect video cable to the monitor.

# Routing Monitor Cables

1. Remove screws (4) and remove rear cover.
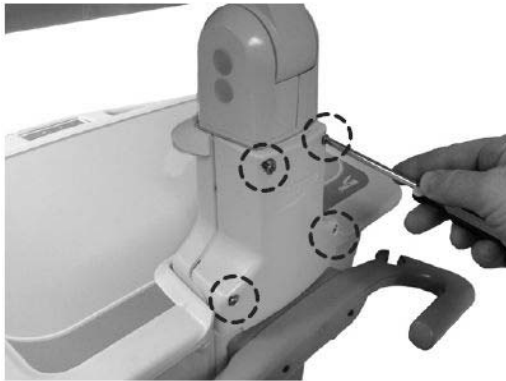


2. Access monitor input cable and video cable from rear enclosure.



3. Route the monitor input cable and video cable from the monitor arm and connect to the monitor.

4.  Replace the rear cover with screws (4).

**NOTE**

For information on adjusting the monitor arm, see "Monitor Arm Adjustments" on page 5-4.

# Install Work Surface

1.  Slide the work surface towards the workstation technology tray and insert in the square slot as shown below.
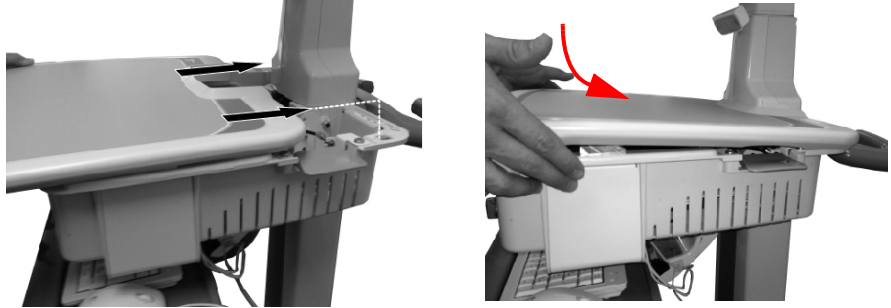


2.  To lock the work surface, rotate the key in counter-clockwise direction 90° as shown below.

# Wake on LAN / Wake on Power

Most computers are equipped with Wake on LAN or Wake on Power (Wake on AC). The AccessPoint workstation takes advantage of these features to turn on the computer from the keypad as shown below, while the computer is locked away inside the technology tray of the workstation.
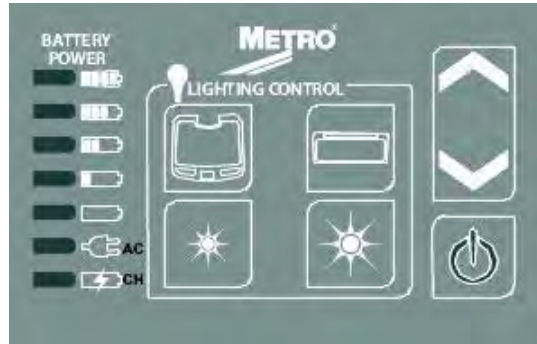


Independently, if the computer is hooked up with Wake on LAN or Wake on Power, pressing the standby button will turn the computer ON. The standby button will be illuminated in green as long as the computer is running. Holding the standby button for 5 seconds, will cut the power to the computer and shut down the computer, if the computer's internal battery is not installed. However, it is strongly recommended to shut down the computer using the Windows "START" button and selecting "Shut down".

## Wake on LAN

### Functioning

If Wake on LAN is selected in the computer's BIOS, the computer's Ethernet port waits to receive the "Magic Packet". Once received, it will command the computer to ON.

Before Wake on LAN works with the AccessPoint workstation's controller, the computer and the controller must be synchronized. Once the computer has booted up to Windows, the SYNC button must be pressed. During the SYNC process, the controller obtains the MAC address from the computer.

After pressing on the standby button, the AccessPoint workstation controller sends the computer's MAC address as well as the "Magic Packet" via the Ethernet cable to the computer to turn the computer ON.

# Wake on LAN Setup

Plug Computer power cable into Wake on LAN Power plug and plug Ethernet cable in the Wake on LAN Ethernet port by referring to layout below.
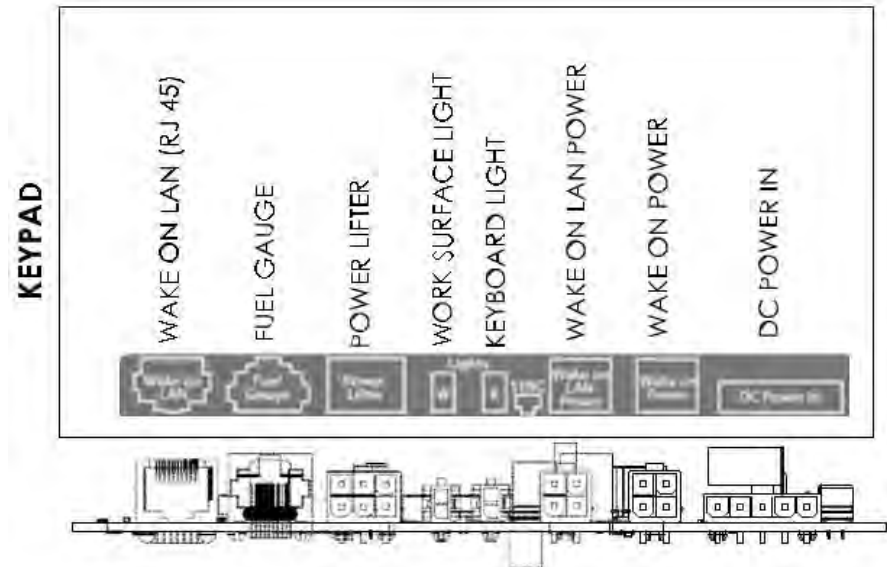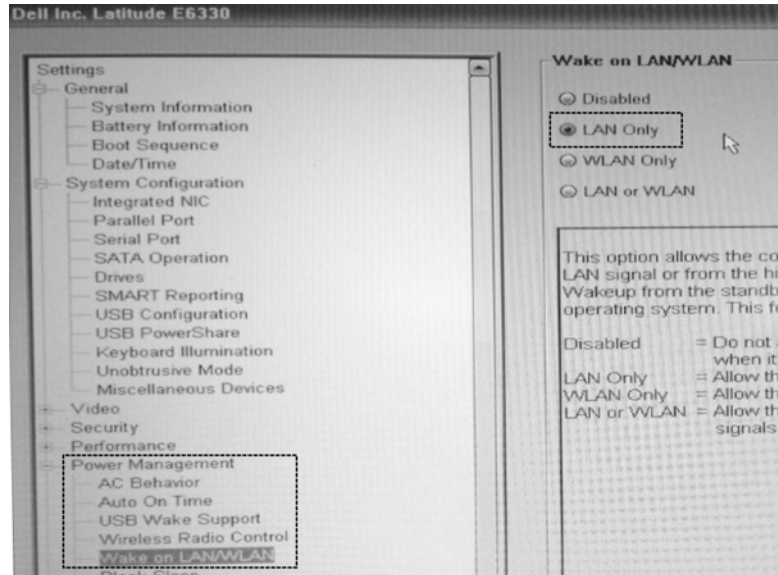


# Setup for Dell Laptop Computers

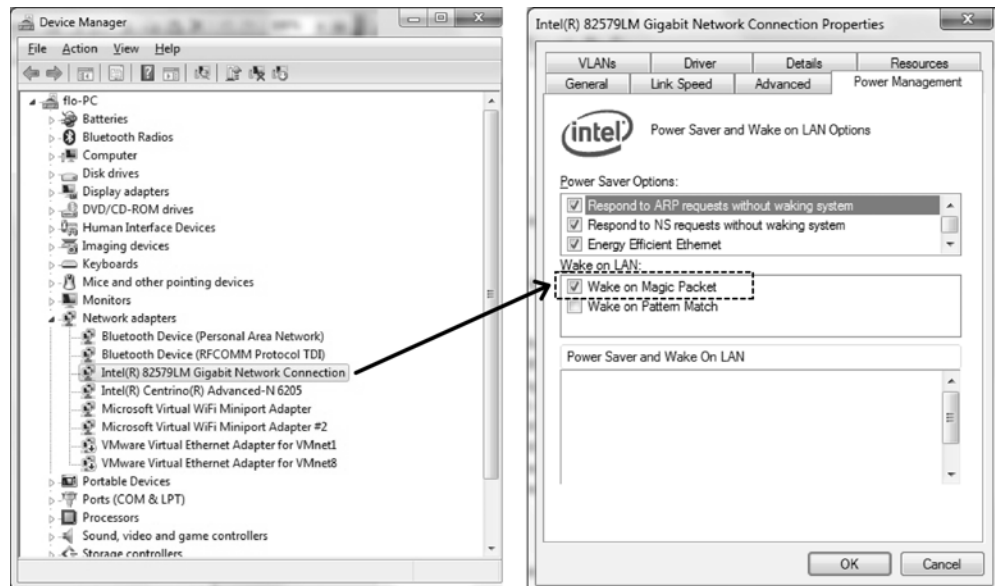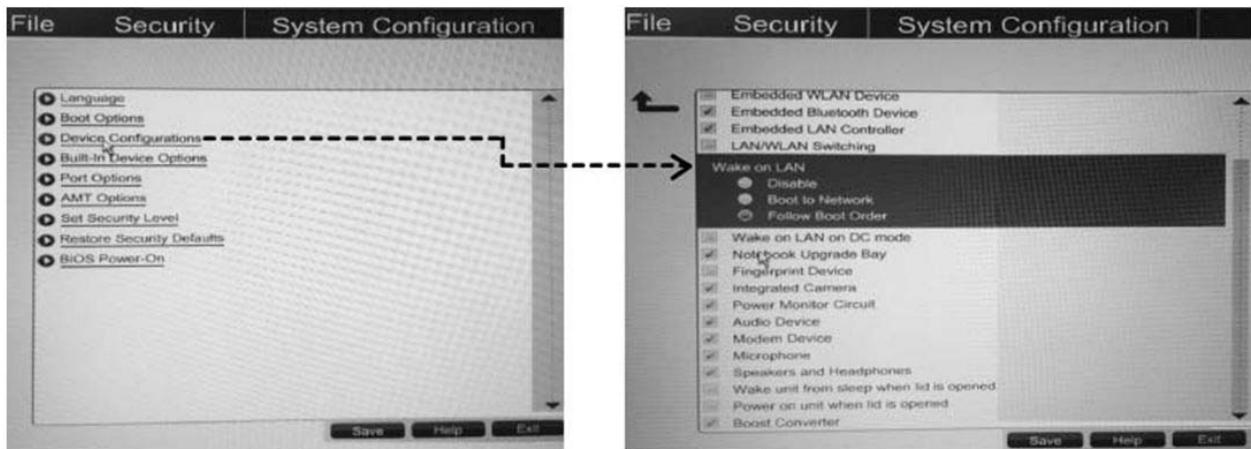1. Connect power tip MT23 (marked "23") to computer power cable and plug in computer.



2. Turn on the laptop computer by pressing its own standby switch.

3. As soon as the Dell Splash screen appears, press F2 to access the laptop's BIOS.

4.   Select "Power Management" and "Wake on LAN/WLAN." Enable
      Wake on "LAN only" as shown below.



5.   Save BIOS changes and boot the computer into Windows.

6.   Press the SYNC button to acquire the computer's MAC address.

7.   The standby button's light will fl ash rapidly. Once the MAC address is
      acquired, the light will go solid for 3 seconds, off for ½ second and then
      stay on due to the computer's current draw.

8.   If the Keypad Controller was not able to acquire the MAC address, the
      standby button's light will fl ash rapidly for several seconds and then it
      will go off or 3 seconds, on for ½ second and then stay on due to the
      computer's current draw. If the sync fails, most likely the Ethernet cable
      is not plugged into the computer and/or the Keypad Controller.

9.   Open the Windows Device Manager.

      a.   Under Network Adapters, select the Ethernet connection (Typically
            it is an Intel Gigabyte Network Connection).

      b.   Right click and select "Properties."

      c.   Click on the "Power Management" tab.

d. Check "Wake on Magic Packet".



10. Shut down the computer using the Windows shutdown feature.

11. Turn on the computer via the keypad's standby button.

## Setup for HP Laptop Computers

1. Connect power tip MT55 (marked "55") to computer power cable and plug in computer.
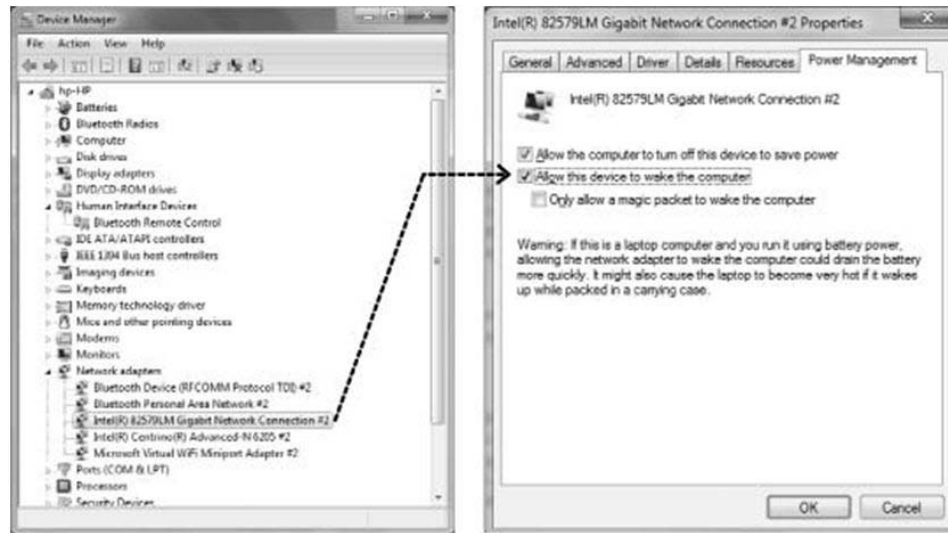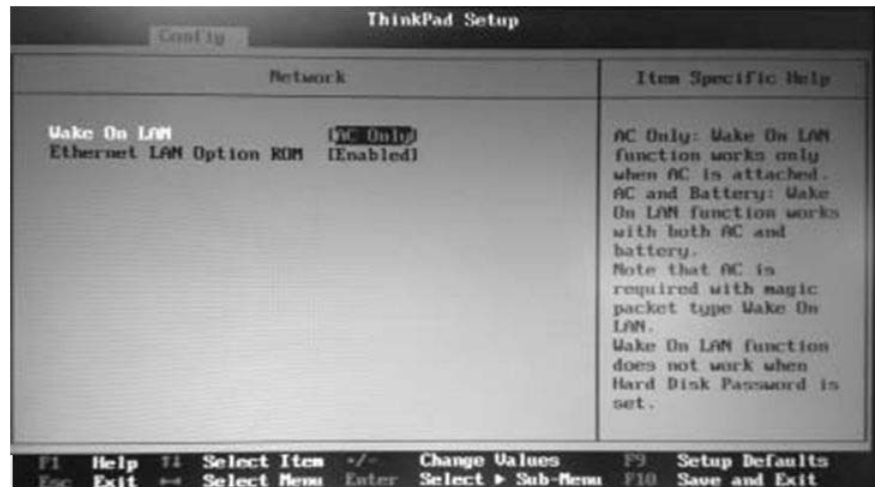


2. Turn on the laptop computer by pressing its own standby switch.

3. As soon as the HP Splash screen appears, press F10 or ESC to access the laptop's BIOS.

4. Select "System Configuration", "Device Configurations" and "Wake on LAN". Check "Follow Boot Order" as shown below.



5. Save BIOS changes and boot the computer into Windows.

6. Press the SYNC button to acquire the computer's MAC address.

7. The standby button's light will fl ash rapidly. Once the MAC address is acquired, the light will go solid for 3 seconds, off for ½ second and then stay on due to the computer's current draw.

8. If the Keypad Controller was not able to acquire the MAC address, the standby button's light will fl ash rapidly for several seconds and then it will go off or 3 seconds, on for ½ second and then stay on due to the computer's current draw. If the sync fails, most likely the Ethernet cable is not plugged into the computer and/or the Keypad Controller.

9. Open the Windows Device Manager.

   a. Under Network Adapters, select the Ethernet connection (Typically it is an Intel Gigabyte Network Connection).

   b. Right click and select "Properties".

   c. Click on the "Power Management" tab.

d.   Check "Allow this device to wake the computer"



10. Shut down the computer using the Windows shutdown feature.

11. Turn on the computer via the keypad's standby button.

## Setup for Lenovo Laptop Computers

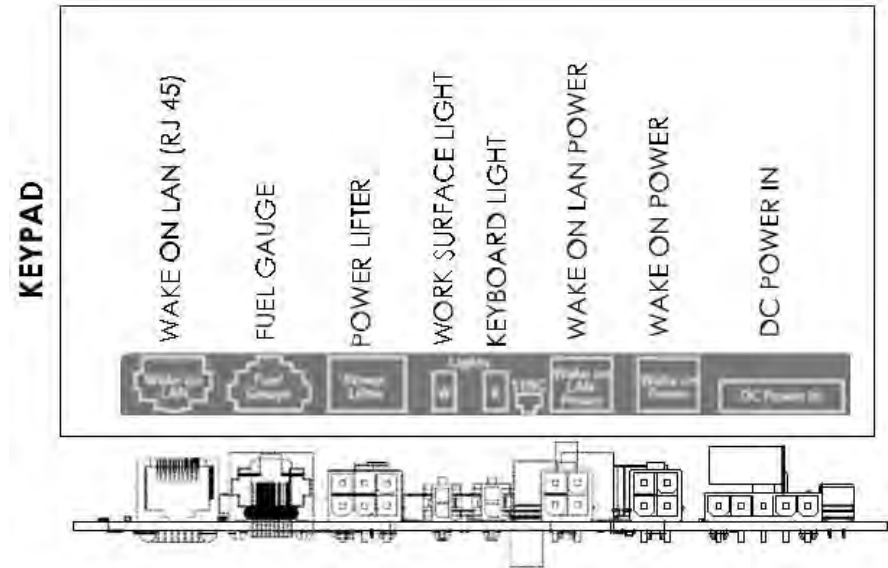1.   Connect power tip MT44 (marked "44") to computer power cable and plug in computer.



2.   Turn on the laptop computer by pressing its own standby switch.

3.   As soon as the Lenovo Splash screen appears, press F1 to access the laptop's BIOS.

4. Select "Config" and "Network". At "Wake On LAN" select "AC Only" as shown below.



5. Save BIOS changes and boot the computer into Windows.

6. Press the SYNC button to acquire the computer's MAC address.

7. The standby button's light will fl ash rapidly. Once the MAC address is acquired, the light will go solid for 3 seconds, off for ½ second and then stay on due to the computer's current draw.

8. If the Keypad Controller was not able to acquire the MAC address, the standby button's light will fl ash rapidly for several seconds and then it will go off or 3 seconds, on for ½ second and then stay on due to the computer's current draw. If the sync fails, most likely the Ethernet cable is not plugged into the computer and/or the Keypad Controller.

9. Open the Windows Device Manager.

   a. Under Network Adapters, select the Ethernet connection (Typically it is an Intel Gigabit Network Connection).

   b. Right click and select "Properties".

   c. Click on the "Power Management" tab.

d.  Check "Allow this device to wake the computer".
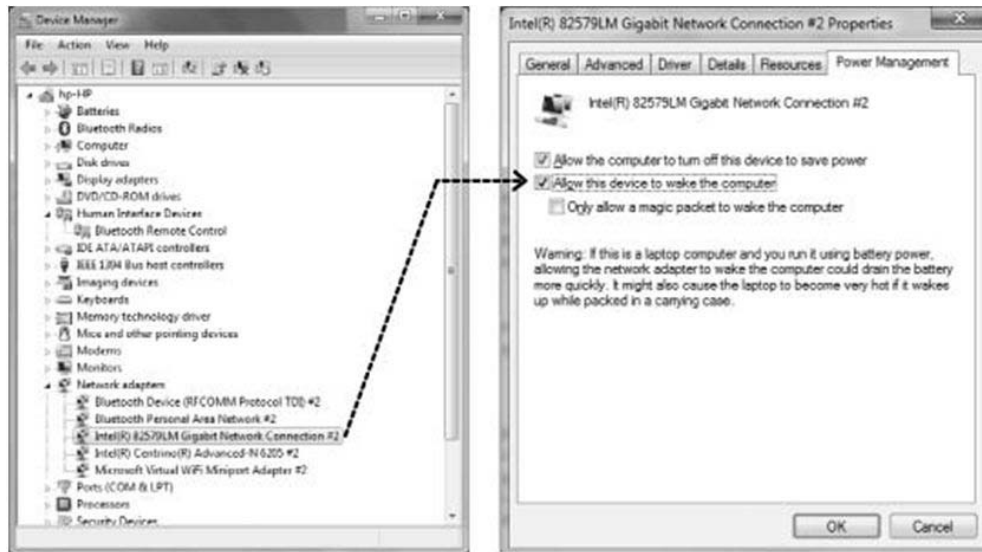


10. Shut down the computer using the Windows shutdown feature.

11. Turn on the computer via the keypad's standby button.

# Wake on Power

## Functioning

As soon as power is applied to the computer, the computer will boot up.

If the AccessPoint workstation is set up for Wake on Power (DC power cable plugged into the Wake on Power connector), DC power is applied to the computer after pressing the standby switch.

# Wake on Power Setup

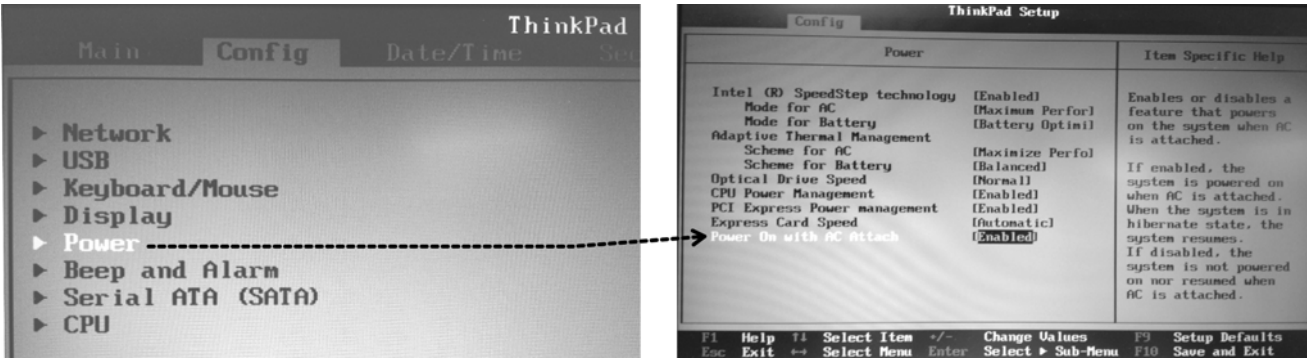Plug Computer power cable into Wake on Power plug by referring to layout below.



# Setup for Dell Laptop Computer

1. Connect power tip MT23 (marked "23") to computer power cable and plug in computer.



2. Press the standby button on the keypad/touchpad and immediately turn on the laptop computer by pressing its own standby switch.

3. As soon as the Dell Splash screen appears, press F2 to access the laptop's BIOS.

4. Select "Power Management" and "AC Behavior". Check "Wake on AC" as shown below.
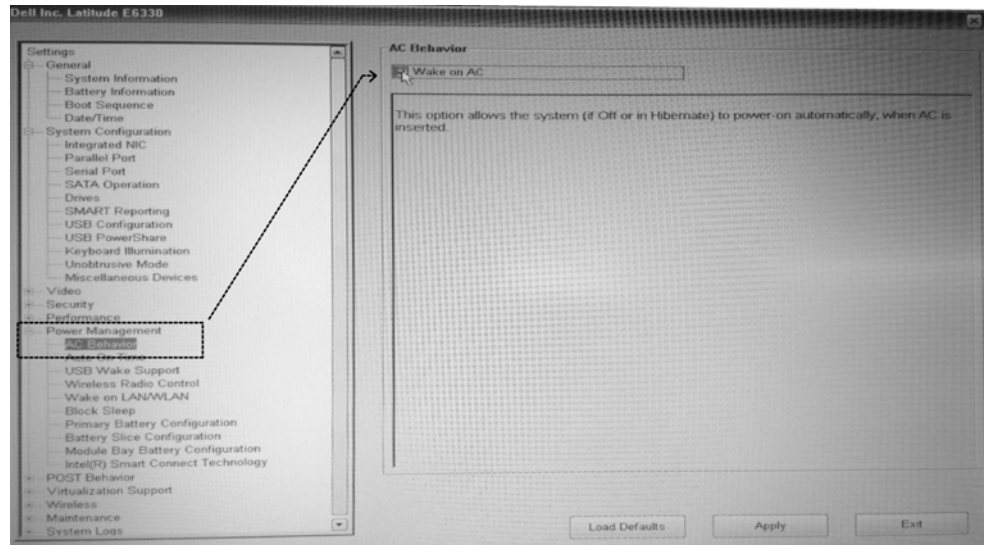


5. Save BIOS changes and boot the computer into Windows.

6. Shut down the computer using the Windows shutdown feature.

7. Turn on the computer via the keypad's standby button.

## Setup for HP Laptop Computer

1. Connect power tip MT55 (marked "55") to computer power cable and plug in computer.



2. Press the standby button on the keypad/touchpad and immediately turn on the laptop computer by pressing its own standby switch.

3. As soon as the HP Splash screen appears, press F10 or ESC to access the laptop's BIOS.

4. Select "System Configuration" and "Device Configurations". Check "Power on unit when AC is detected" as shown below.
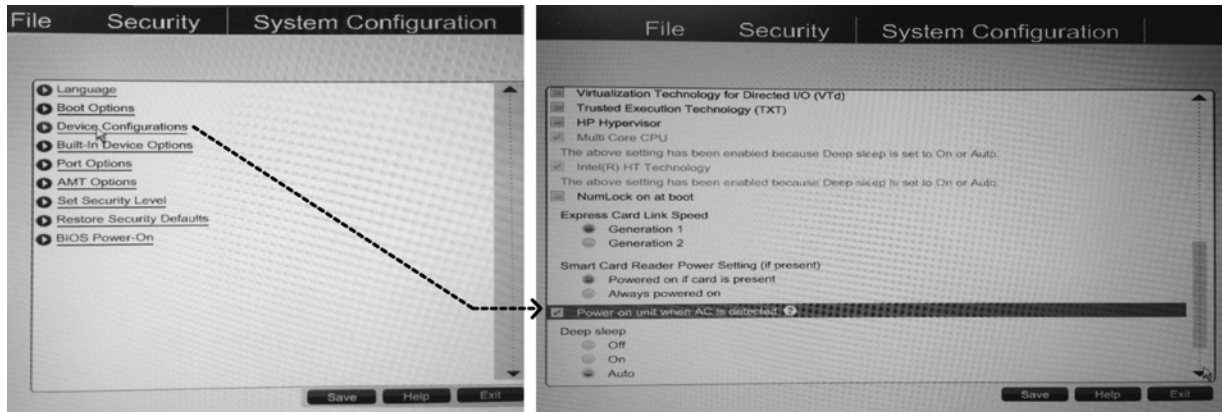


5. Save BIOS changes and boot the computer into Windows.

6. Shut down the computer using the Windows shutdown feature.

7. Turn on the computer via the keypad's standby button.

## Setup for Lenovo Laptop Computer

1. Connect power tip MT44 (marked "44") to computer power cable and plug in computer.



2. Press the standby button on the keypad/touchpad and immediately turn on the laptop computer by pressing its own standby switch.

3. As soon as the Lenovo Splash screen appears, press F1 to access the laptop's BIOS.

4. Select "Config" and "Power". Enable "Power On with AC Attach".

5. Save BIOS changes and boot the computer into Windows.

6. Shut down the computer using the Windows shutdown feature.

7.  Turn on the computer via the Keypad/Touchpad's standby button.

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# 3 Workstation Operation

# Introduction

The Metro AccessPoint Mobile Computing System includes a Power Supply, Batteries (SLA, LiFe or Li-Nano), Power Cord, Expandable Technology Tray, Monitor Mount, Keypad Controller, Ergonomic Keyboard Tray, LED Lights, and a Height Adjustment Mechanism.

On selected AccessPoint workstation, you may see a Touchpad Controller, BatteryPro Software, Electronic Lifter, Dual Monitor, Ergonomic Push Handle, and/or SecureRx Medication Module.

## Metro AccessPoint Workstation Base

The Metro Base is the backbone of every AccessPoint workstation. The Base features casters to wheel it around easily, provides mounting hardware to mount the power supply, and offers a foot rest to the user.

It supports gas assisted lifting mechanism or power actuator lifting mechanism for adjusting the height of the workstation in the range of 23-48" (584x1219 mm).
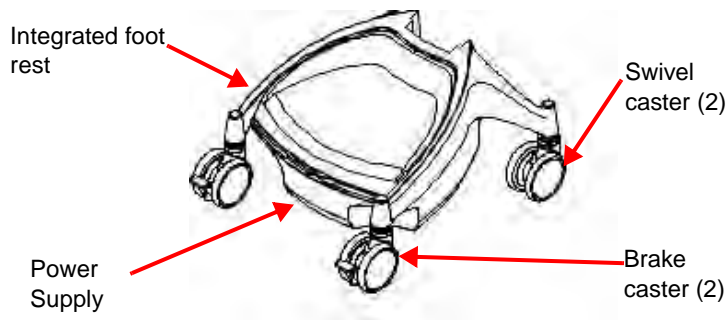


## Power Supply

The Lithium Iron Nano-Phosphate (Li-Nano), Sealed Lead Acid (SLA) and LiFe are the rechargeable power sources for the AccessPoint workstations.

These power supply's are fully automatic power supply charger system with a nominal DC output voltage of 12 Volts (V) and a battery capacity of 512 to 540 Watt-hours (Wh) depending on chemistry.

When plugged into an AC outlet, it supplies power to the equipment while also charging the Li-Nano, SLA & LiFe cells.

When unplugged from the outlet, the power supply switches automatically to supply the equipment from the internal Li-Nano, SLA and LiFe rechargeable battery cells.

The power supply is designed for continuous operation and service is not interrupted by plugging in or unplugging the power supply.

## Power Up the Power Supply

The power supply is controlled by the "ON/OFF" switch located on the power supply that is typically mounted on the bottom of the AccessPoint workstation as shown in "Charge Power Supply Battery" on page 2-7. In the "ON" position the Power Supply provides power to the workstation and in "OFF" position power is removed from the workstation equipment.

**NOTE**

Li-Nano, SLA and LiFe are independent from charging electronics. Replacement consists of removal of batteries only. Contact customer service for information.
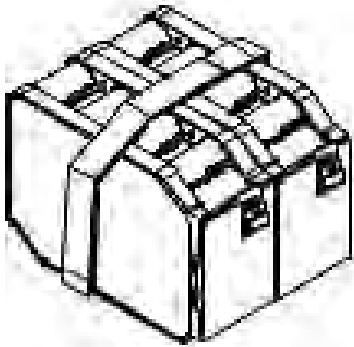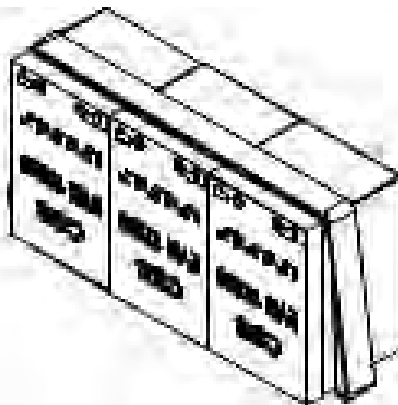


Li-Nano Battery          SLA Battery          Li-Fe Battery
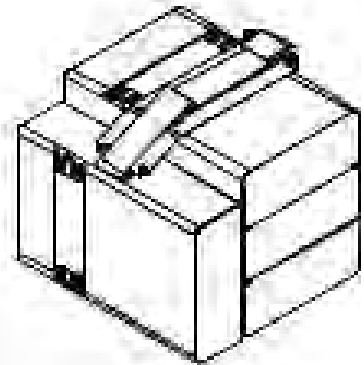
# LED Lights

For better visibility, white illuminating LEDs are located above the work surface and the keyboard tray.

The user can change the illumination of the work surface or the keyboard by operating the Keypad Controller. Moreover, there are five intensity settings, by pressing the intensity control; the user has the ability to change level of intensity.

Work surface LED

Keyboard LED
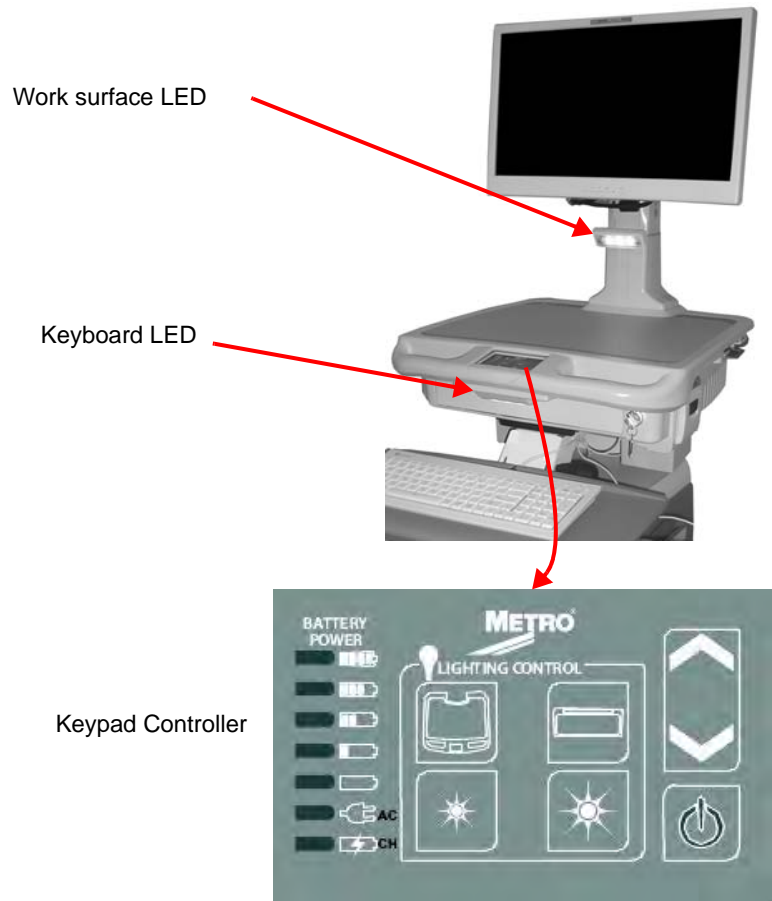
Keypad Controller

# Keypad Controller

Keypad Controller is located on the front side of work surface.

By pressing the work surface or keyboard key you turn work surface or keyboard LED ON or OFF.

The standby switch in the lower right corner is used to turn on the computer equipment either by using "Wake on LAN" or "Wake on Power." Holding the standby switch for more than 5 seconds will cut the power to the computer (this mode of shut down is not recommended).
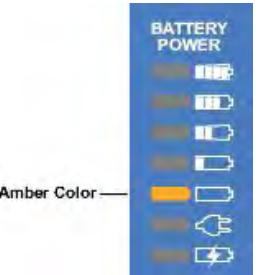
The intensity of work surface or keyboard LED lights can be changed by pressing the "Star" button (HIGH/LOW) on the Keypad Controller.
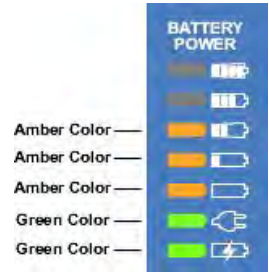
The workstation height can be adjusted by pressing the Up or Down arrows on the Keypad Controller.

# Keypad Controller LED Battery Fuel Gauge

The charge level of the battery cells when operating on DC power is indicated by "BATTERY POWER" LEDs.

If the battery is fully charged, all five (5) amber LEDs are illuminated. The LEDs always display the battery charge level whether the computer is operating or not. As the battery looses charge, the LEDs gradually turn off, one at a time. Once the top four LEDs are off and only the bottom amber LED is illuminated and fl ashing, it is recommended to plug the AC cord into an AC outlet as soon as possible to charge the battery.

| Fuel Gauge | Status |
|---|---|
|  Amber Color — Amber Color — Amber Color — | Battery is discharging under normal, mobile operation. Example shown is down to about 50% charge remaining. <br><br> Power supply plugged into wall outlet (AC) <br><br> Battery Charging (CH) |
|  Amber Color — | Low battery LED flashing: plug power supply into AC immediately. |

| Fuel Gauge | Status |
|---|---|
|  Amber Color — Amber Color — Amber Color — Green Color — Green Color — | ■ AC indicates the power supply is plugged into the wall AC.<br>■ CH indicates the battery is charging.<br>■ AC and CH LED must be ON.<br>■ The amber LEDs will turn on in sequence to indicate the charging status.<br>■ Example shown is up to about 50% charged. |
|  Amber Color — Amber Color — Amber Color — Amber Color — Amber Color — Green Color — | ■ AC indicates the power supply is plugged into the wall AC.<br>■ The amber LEDs indicate the battery is fully charged.<br>■ Note that the CH LED is not lit because the battery is not being charged<br>■ since the cycle is complete. |

**NOTICE**    Once the power supply has been plugged into an AC outlet, the bottom two green LEDs will turn on.

Additional patterns with flashing LEDs indicate a problem with the power supply. See "Power Supply and Battery" on page A-3 for more information.

## Charge Time

Charge time for fully depleted batteries depends on the amount of load connected to the power supply.

Typically it takes 2 hours in fan mode and 3 hours in fan less mode with LiFe and Li-Nano and 4 hours for SLA regardless of fan mode to fully charge a completely depleted battery, if the load of workstation electronics is less than 50 Watts. For a greater load, charging will take longer:

Examples:

Workstation electronics load is in a range greater than 120 Watts. The power supply can only provide less than 13A to charge 2 battery packs. The charge time will increase to over 3 hours.

Maximum charging current will resume once output load dropped.

Upon completion of the charge cycle, all 5 amber LEDs will be illuminated and the green CH (charge) LED will turn off, indicating that the batteries of the power supply are fully charged.

**NOTICE**   If the AccessPoint workstation is not used for an extended period of time, ensure the ON/OFF Switch is set to the OFF position. If the power supply is left in the ON position, the workstation equipment will continue to draw power and discharge the battery. Extended storage of empty batteries will cause permanent damage.

**NOTICE**   If the AccessPoint workstation is to be placed in long term storage (longer than one week), the power supply should be fully charged before placing the ON/OFF switch in the OFF position.

**NOTICE**   Power supply enters sleep mode after one week in extended storage. If the power supply has been switched to OFF for more than 1 week, connect the workstation to AC to wake up the power supply.

# Height Adjustable Column/Work Surface Adjustment

The height adjustment release handle is used to adjust the height of the AccessPoint workstation.

The writing surface height can be set within a 20" dynamic range of adjustment, making it easier to type and read the monitor from either a standing or sitting position.

## Raising the Workstation

1. Stand in front of the workstation and grasp the release handle with your right hand.

2. Grab the left side of the writing surface with your left hand.

3. Pull the release handle up.

4. While holding the release handle up, lift the writing surface to the desired height and then release the handle.

## Lowering the Workstation

1. Stand in front of the workstation and grasp the release handle with your right hand. Grab the left side of the writing surface with your left hand.

2. Pull the release handle up.

3. While holding the release handle up, push the writing surface down to the desired height and then release handle.

Release Handle
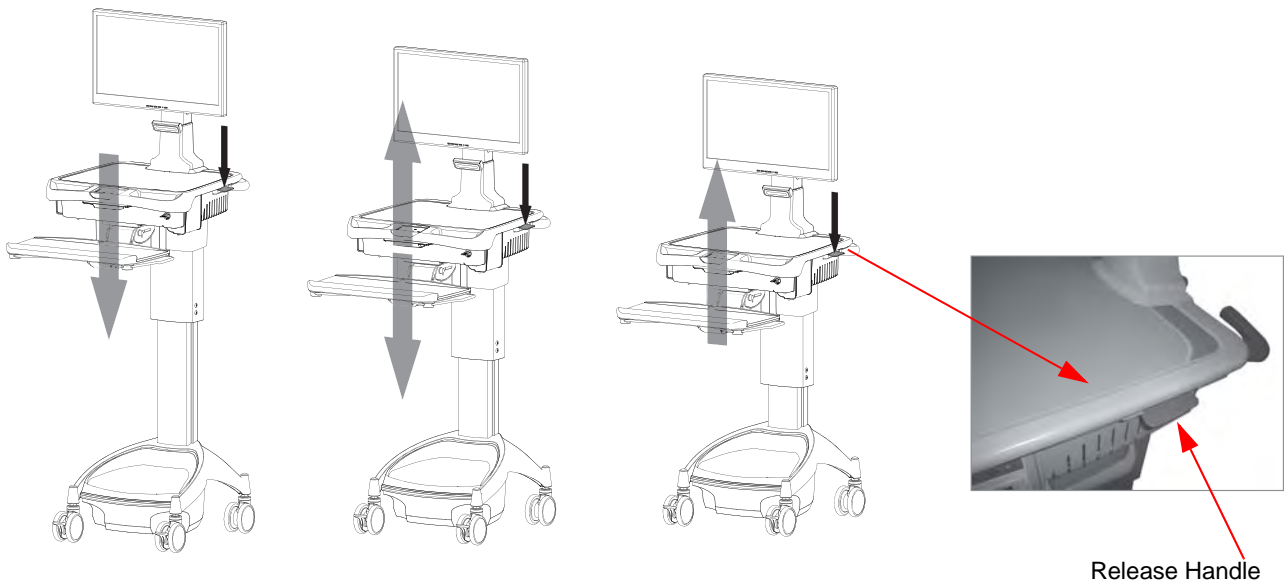
# Keyboard Tray

The keyboard tray can be adjusted for comfort and convenience; and is mounted under the technology tray. It can moved in and out, up and down, left and right and can be tilted.

Rotating the small adjustment wheel in the clockwise direction gives 20° negative tilt of the keyboard tray with 10° interval.

Rotating the small adjustment wheel in the anti-clockwise direction gives 10° positive tilt of the keyboard tray as shown below.

A tilt indicator is located on the left side of the keyboard tray mechanism to identify the tilt angles.
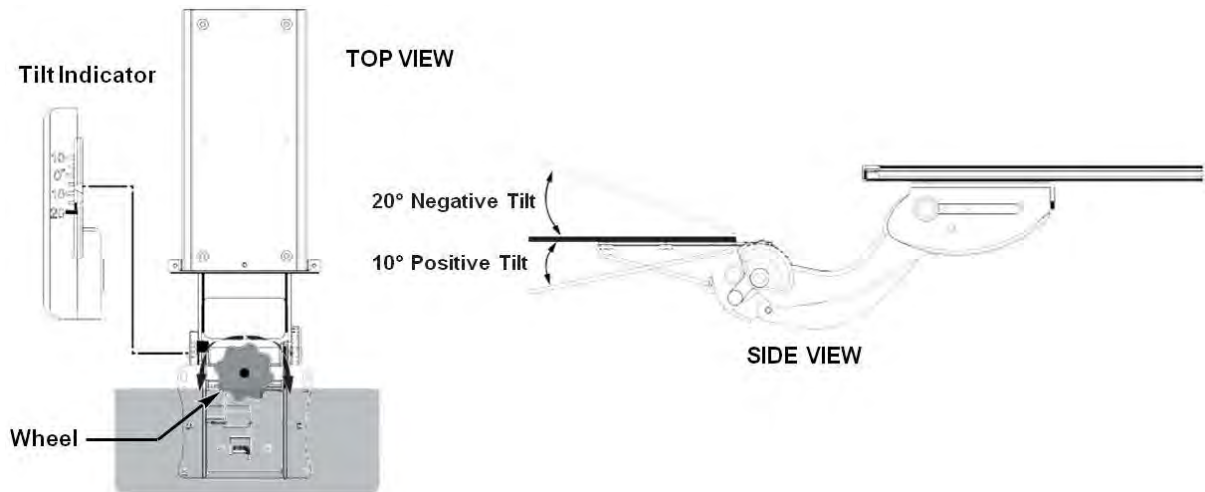


To move the keyboard up, gasp with both hands and pull forward and lift up at the same time (3" height adjustment in upward direction).

To lower the keyboard or return it to the stowed position, lift up slightly on the front edge of the keyboard. This releases the locking mechanism and allows the keyboard to be lowered and glided back into it's stowed position (5" height adjustment in downward direction).

On the right side of the keyboard tray mechanism a height indicator is located to identify the height intervals.
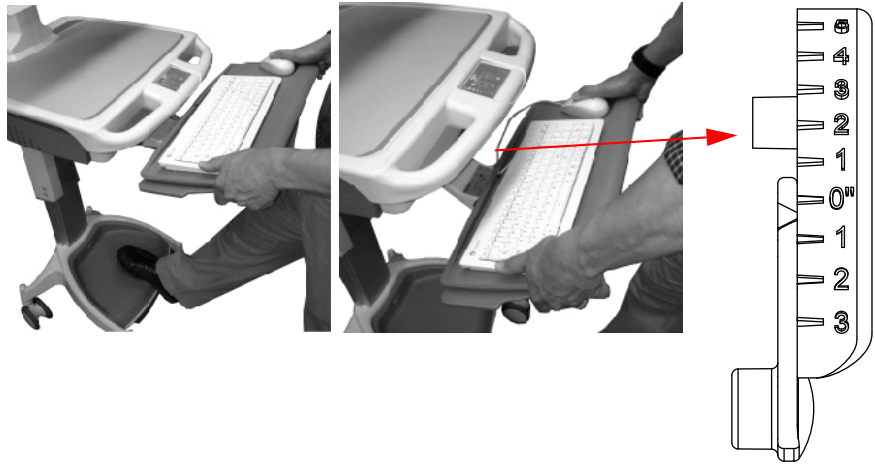


The entire keyboard tray can be rotated 90° towards left and right as shown below.
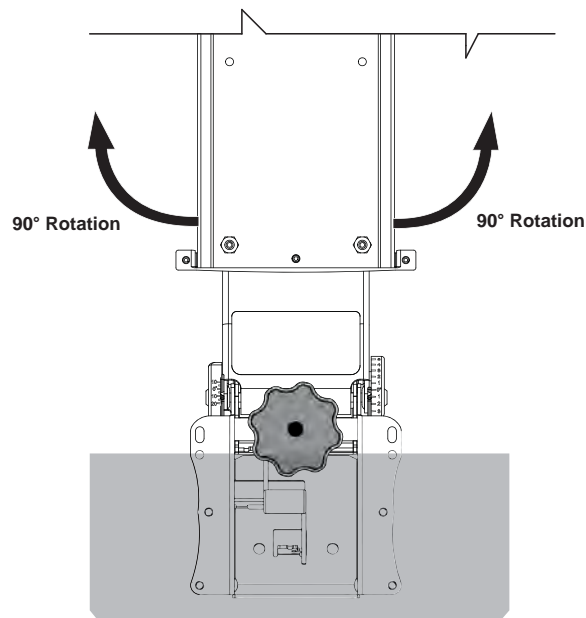


The AccessPoint workstation is also equipped with two flip out mouse pads. Simply pull and rotate the mouse pad out until the restriction in movement is felt.

**NOTE**

Before moving the workstation, center and stow the keyboard tray as well as retract the mouse pads.

# Monitor Mount

The monitor mounting arm can be adjusted up or down and or simultaneously be tilted. This allows the user to place the monitor in a position for best viewing.

To adjust monitor position, grasp monitor with both hands and move to the desired position. Figure below shows highest and lowest positions of the monitor.
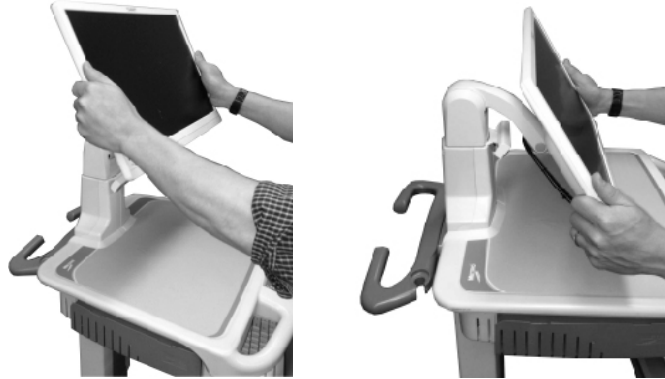


The monitor mount can be tilted 45° towards left and 45° towards right as shown below.
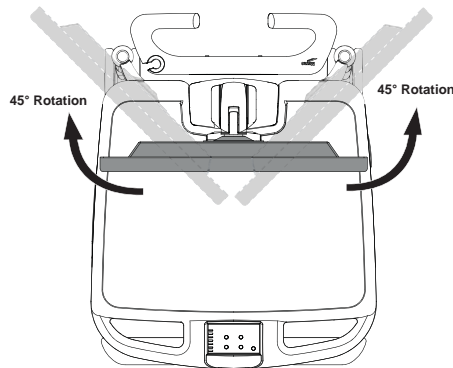
To rotate the monitor face, grab the sides with each hand and move in a circle to the position desired.
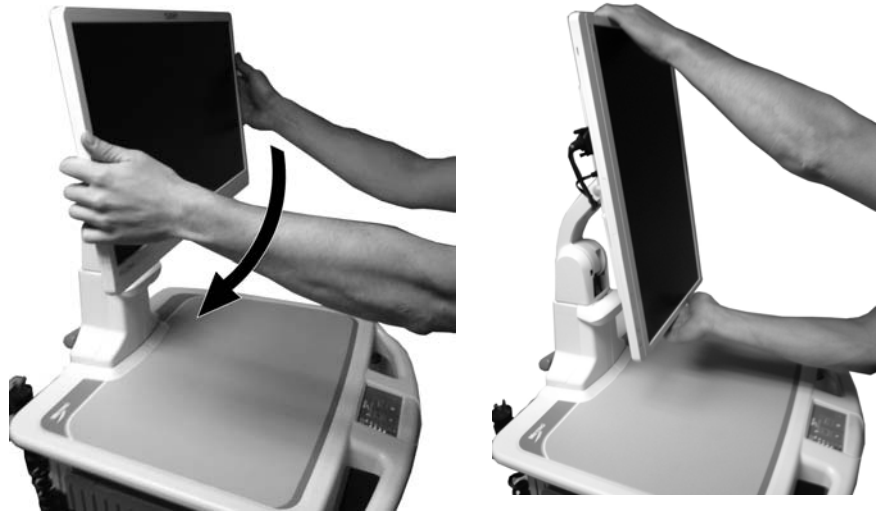


# Rear Handle

The AccessPoint workstation can be deployed with a rear handle designed to push the workstation by a nurse or doctor. Moreover, the user can attach the workstation power cord to the rear handle for easy transportation.

# Casters

The AccessPoint workstation is configured with two locking and two non-locking casters. The two locking casters are on the front of the workstation.

To lock a caster in the front, press its locking tab down.

To unlock a caster, lift its locking tab up.



# Power Cord

Your mobile workstation comes with a coiled rubber cord. Its extended length is 8 ft and optionally, a 12 ft length is available as well. In the USA, the power cord is equipped with a hospital grade plug and shall be plugged into a hospital grade outlet only, to ensure grounding reliability. Outside the USA, your workstation comes equipped with your country's AC plug. The rubber jacket of the cord provides excellent coil retention and keeps the shape of the cord close to its original condition.

**NOTICE**   When unplugging the mobile workstation, grasp the cord at the plug and unplug. Do not unplug by pulling at the cable or pulling the entire workstation away from the outlet.

Power cord is available in following standards:
- Continental Europe
- UK
- Swiss
- Australian/New Zealand/China
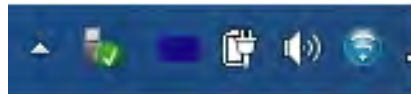
# 4    BatteryPro

# Starting BatteryPro

BatteryPro Mobile Computing Workstation Power Supply Management Software is an optional application for monitoring the status of Power Supply. When installed, BatteryPro is typically configured to start automatically when the host computer starts up. No additional user action is required.

**NOTICE**

BatteryPro requires the workstation computer to be connected via USB to the power supply USB port. The connection is already made if the workstation is delivered with the power supply and BatteryPro installed.

If BatteryPro is not running as indicated by the status tray icon shown below, it can be started by double-clicking on the Blue Battery icon shortcut provided on the desktop by the software installation.

Battery shape indicates BatteryPro is running (example shown is fully charged state).

If BatteryPro is not running, double-click on the desktop shortcut to start BatteryPro.

**NOTE**

BatteryPro shortcut is also available from the Windows Start All Programs menu.

**NOTICE**

The first time BatteryPro is launched, the Windows Firewall may ask you if yo want to continue to block BatteryPro. If this happens, click the "Unblock" button.
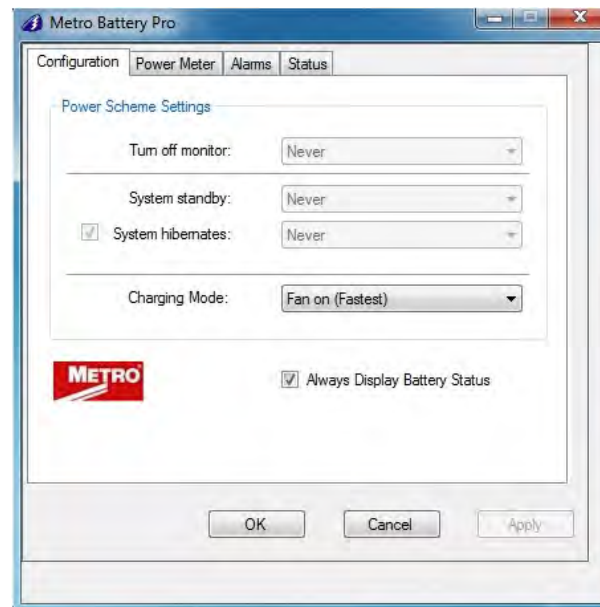
# BatteryPro Settings

BatteryPro settings are configured through the BatteryPro Power Properties dialog. The Power Properties dialog is entered by right-clicking on the

BatteryPro status tray icon, highlighting (with the mouse pointer) and selecting "Open Power Properties" with a left click.

Right-click on BatteryPro status tray icon and select and left click on "Open Power Properties" to enter  BatteryPro Power Properties configuration dialog.

| Power Options |
| --- |
| Exit |
| Show/Hide Status Window |
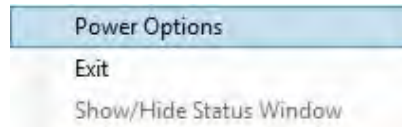
The tabs in the Power Properties dialog shown below may be selected to view and configure the BatteryPro settings. See

# Stop BatteryPro

BatteryPro can be stopped by right-clicking on the BatteryPro status tray icon, highlighting (with the mouse pointer) and selecting "Exit" with a left click.

Right click on BatteryPro status tray icon and select and left click on "Exit" to stop BatteryPro.

# Status Indicators
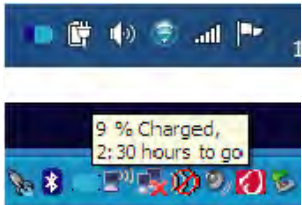
Start BatteryPro application as mentioned in "Starting BatteryPro" on page 4-2.

BatteryPro has two ways of showing the status of the workstation power supply. Both are shown in the lower right hand side of the computer display, in and above the status tray.

1. An icon in the status tray shows the state of the power supply batteries.

2. The Desktop Status Window that can be hidden or moved anywhere on the workstation monitor display, provides brief information of the state of the power supply batteries.

## Status Icon

The Status Icon in the status tray shows the charge status of the workstation power supply batteries.

| | |
|---|---|
|  | **Communications: Standby**: Power supply and workstation computer communications interrupted.<br>Symbol may appear very briefly when BatteryPro has just started while the power supply and computer establish USB communications. The status should change to a battery shape below: if it does not, the USB connection between the computer and power supply has a problem. See Appendix A, "Troubleshooting" for more information. |
|  | **Charging**: Power supply is plugged into AC power source and is charging the batteries.<br>Blue will scroll across the battery icon indicating that it is charging.<br>Placing the mouse pointer over the icon will reveal the charging status: the percentage of charge in the batteries and remaining charge time to full charge. |

| | |
|---|---|
|  | **Fully Charged or Discharging, Full Level:**<br>1. Power supply is plugged into AC power source and the batteries are fully charged, or<br>2. Power supply is not plugged into AC power source and is running on nearly fully charged batteries.<br>Battery icon is a steady blue. Placing the mouse pointer over the icon will reveal the charge status. |
|  | **Discharging**: Power supply is not plugged into AC power and is running on batteries.<br>Battery icon is steady blue to the battery charge level.<br>**Discharging, Low Level**: Power supply is not plugged into AC power and is running on batteries. Battery charge has dropped below threshold set for "Low Battery Alert" (see ""Alarms" on page 4-11 below).<br>Battery icon is a thin dark blue line.<br>**Notice**: A "Low Battery Alert" message may be displayed. |

# Desktop Status Window

The BatteryPro Desktop Status Window normally appears above the status tray icon. It provides descriptive information of the charge status of the workstation power supply batteries, including estimated time to complete charging or until fully discharged. The Status Window will appear, if the "Always Display Battery Status" box is checked in the Scheme tab of the BatteryPro Power Properties dialog (see "BatteryPro Configuration and Status" on page 4-8).

## Display the Desktop Status Window

The Desktop Status Window can be enabled in two ways.

1. Right click on BatteryPro status tray icon and select and left click on "Show/Hide Status Window" to display the Desktop Status Window.

2. Open the BatteryPro Power Properties dialog, select the "Scheme" tab and check the "Always Display Battery Status" box (see also "Scheme" under "BatteryPro Configuration and Status" on page 4-8).

   Right click on BatteryPro status tray icon, select left click on "Show/ Hide Status Window" to display the Desktop Status Window.
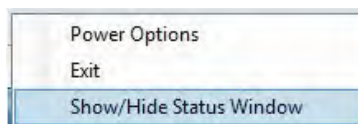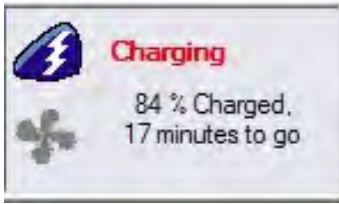
## Move the Desktop Status Window

You can move the Desktop Status Window by clicking on it and holding down the left mouse button, and then dragging it to any part of the monitor display.

## Hide the Desktop Status Window

You can hide the Desktop Status Window (disabled from display) in two ways.

1. Open the BatteryPro Power Properties dialog, select the "Scheme" tab and clear the "Always Display Battery Status" box (see also "Scheme" under "BatteryPro Configuration and Status" on page 4-8).

2. Show/Hide status window.

## Desktop Status Window Indicators

| | |
|---|---|
| Communications: Standby | Communications: Standby. Power supply and workstation computer communications interrupted.<br><br>Symbol may appear very briefly when BatteryPro has just started while the power supply and the computer establishes USB communications. The status should change to next state below: if it does not, the USB connection between the computer and power supply has a problem. See "Troubleshooting" below. |
| Charging<br><br>84 % Charged, 17 minutes to go | Charging: Power supply is plugged into AC power source and is charging the batteries.<br><br>Blue will scroll across the battery icon indicating that it is charging. Battery charge level is displayed as a percentage and, based on the current equipment load, the calculated remaining charge time. |
| Charged<br><br>100 % Charged | Charged: Power supply is plugged into AC power source and the batteries are fully charged.<br><br>Battery icon is a steady blue. |

| | |
|---|---|
|  | Discharging: Power supply is not plugged into AC power and is running on batteries.<br><br>Battery icon is steady blue to the battery charge level.<br><br>Battery charge level is displayed as a percentage and, based on the current equipment load, the calculated remaining run time. |
|  | Discharging, Low Level: Power supply is not plugged into AC power and is running on batteries.<br><br>Battery charge has dropped below threshold set for "Low Battery Alert" (see "Alarms" on page 4-11). Battery icon is light blue to the battery charge level. |
|  | **Notice**: A "Critical Battery Alert" message may be displayed if "Display Message" box is checked for the Notification action. See ""Alarm Notification and Action Settings" on page 4-11". |
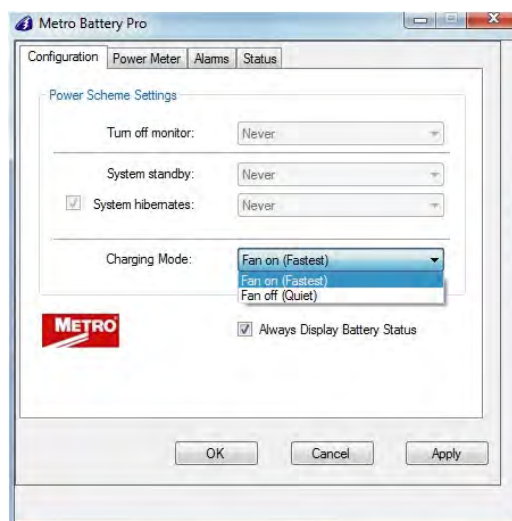


For fan less operation, select **Charging** Mode: Fan off (Quiet)
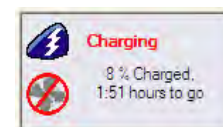


For fan operation, select **Charging Mode**: Fan on (Fastest)
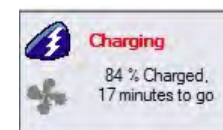
# BatteryPro Configuration and Status

BatteryPro settings are configured through the BatteryPro Power Properties dialog. The Power Properties dialog also displays more detailed status and diagnostic information. The tabs in the Power Properties dialog may be selected to configure and view the various BatteryPro settings and status.
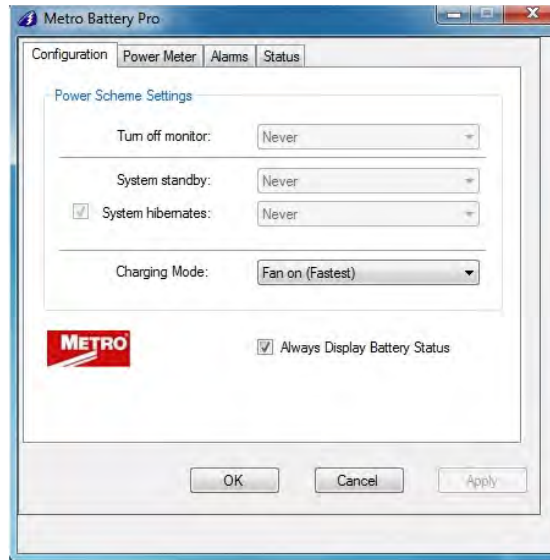
- Configuration: Displays and allows changes to BatteryPro Power Scheme settings and to reveal or hide the display of the Desktop Status Window.
- Power Meter: Displays the current summary information about the power source and batteries.
- Alarms: Displays and allows changes to low and critical battery alert levels and actions settings.
- Status: Displays RF signal strength, Battery Health and BatteryPro Version.
- Diagnosis: Hidden tab: when revealed, displays power supply and individual battery data for troubleshooting purposes.
- Fault Warning: Hidden tab: when revealed, displays fault warning message.

# Open the BatteryPro Power Properties Dialog Window

The Power Properties dialog is entered by right-clicking on the BatteryPro status tray icon, highlighting (with the mouse pointer) and selecting "Open Power Properties" with a left click.

Right-click on BatteryPro status tray icon and left-click on "Open Power Properties" to enter BatteryPro Power Properties configuration dialog.

| Power Options |
| Exit |
| Show/Hide Status Window |
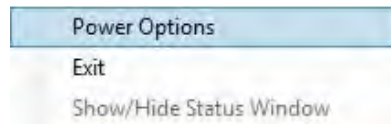
1. On the Configuration tab in BatteryPro Power Properties dialog, set the following:

   ◆ Power Scheme Settings.

   ◆ Always Display Battery Status.

2. Click on "Apply" button to apply new values.

3. Click on "X" to minimize the dialog back to the status tray icon.

4. Click on another tab to view or edit other settings.

The Configuration Setting sets three delays when the workstation is not actively being used.

■ "Turn off monitor": delay until the system turns off the workstation display monitor.

■ "System standby": delay until the system enters standby mode.

■ "System Hibernates": delay until the computer enters hibernation.

■ "Charging Mode": turns Fan on (Fastest) or Fan off (Quiet).

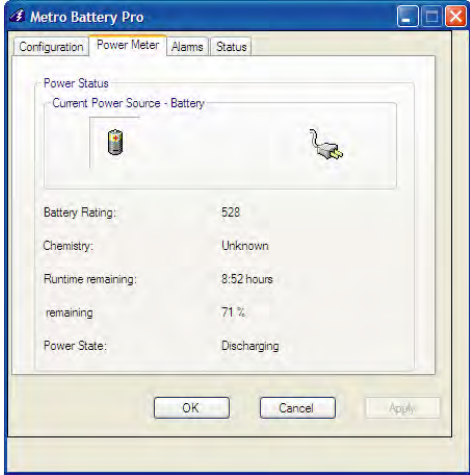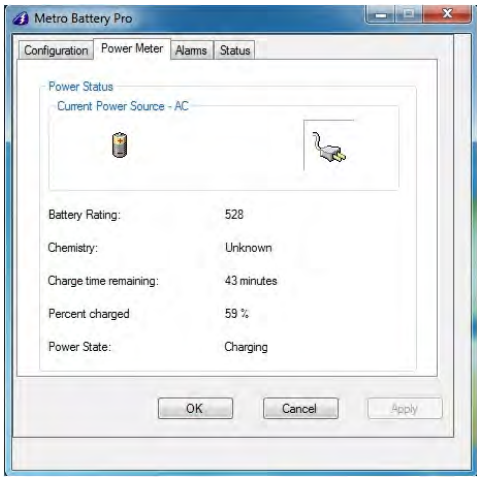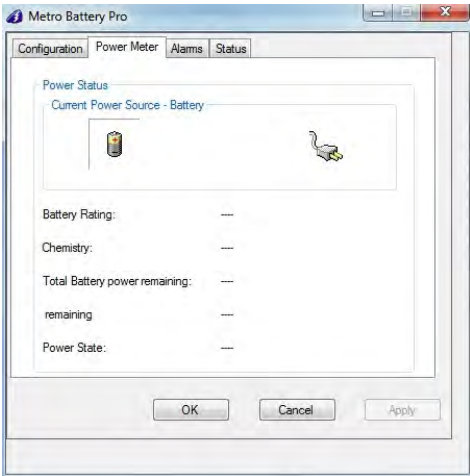# Always Display Battery Status Checkbox

The "Always Display Battery Status" Checkbox controls the display of the Desktop Status Window:

The Desktop Status Window is enabled to view immediately by left clicking on to check the box on the Scheme tab. This performs the same function as the procedure in "Displaying the Desktop Status Window" above.

The Desktop Status Window is disabled and hidden from view immediately by unchecking the box on the Scheme tab. This performs the same function as the procedure in "Hide the Desktop Status Window" on page 4-6.

# Power Meter

The "Power Meter" tab displays the current summary information about the power source and batteries.

| | |
|---|---|
|  | Power Meter Tab Display: On Batteries<br><br>Select "Power Meter" tab in BatteryPro Power Properties dialog.<br><br>Shown at left is indication of running off battery.<br><br>Display includes battery specifications, percent capacity of charge and calculated run time remaining.<br><br>Click on "X" to minimize the dialog back to the status tray icon.<br><br>Click on another tab to view or edit other settings. |
|  | Power Meter Tab Display: On AC<br><br>Select "Power Meter" tab in BatteryPro.<br><br>Shown at left is indication of plugged in and running off AC and charging.<br><br>Display includes battery specifications, percent of capacity charged and time remaining until fully charged.<br><br>Click on "X" to minimize the dialog back to the status tray icon.<br><br>Click on another tab to view or edit other settings. |
|  | Power Meter Tab Display: No Communication<br><br>Select "Power Meter" tab in BatteryPro Power Properties dialog.<br><br>Shown at left is the blank dialog that occurs if the power supply and workstation computer communications are interrupted and the status tray icon and Desktop Status Window display "Communications: Standby."<br><br>Click on "X" to minimize the dialog back to the status tray icon.<br><br>Click on another tab to view or edit other settings. |

# Alarms

Click on the "Alarms" tab to view or change low and critical battery alert levels and actions settings. Clicking on the "Alarm Action" buttons displays additional options for setting the messages and actions to be taken by BatteryPro when the alarms occur.
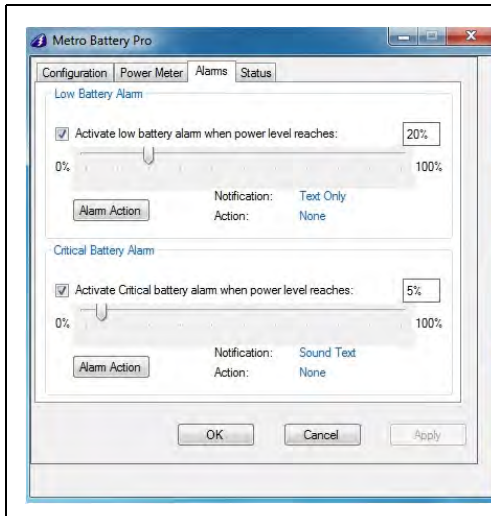


Alarms Tab Display
Select "Alarms" tab in BatteryPro Power Properties dialog.
Set Low Battery and Critical Battery Alarm threshold levels by:
1.    Click check box to activate alarm.
2.    Click on and while holding down mouse button, drag pointer on threshold slide bar. Percentage is battery discharge level when the alarm will activate
Notification and perform the Action shown.
3.    Click on "Alarm Action" button to set Alarm actions. New dialog will pop up (see below).
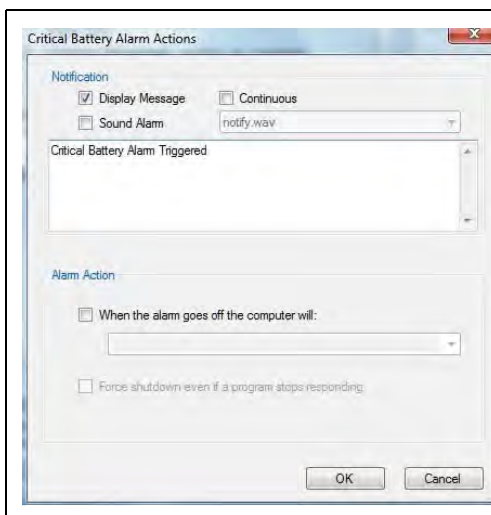Click on "Apply" button to apply new values.
Click on "X" to minimize the dialog back to the status tray icon.
Click on another tab to view or edit other settings.

## Alarm Notification and Action Settings

Click on "Alarm Action" button to set Alarm actions. There are separate settings for the Low Battery and Critical Battery Alarms.
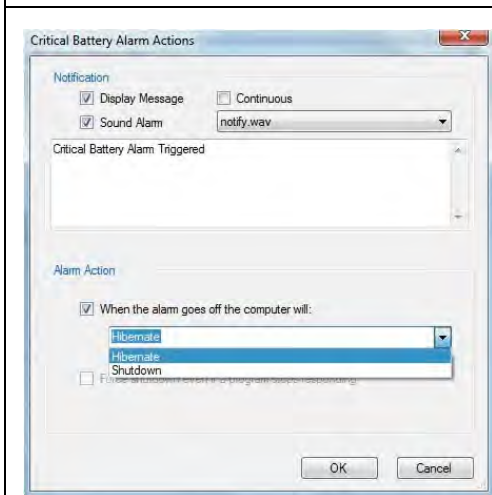


Notification Settings
Click check boxes to set type of Notification desired. Two types are available in any combination:
1. Sound Alarm: a Windows Default Critical Error Program Error sound that runs one time only.
2. Display Message: a pop-up warning message will appear on the screen. See "Desktop Status Window" on page 4-5.
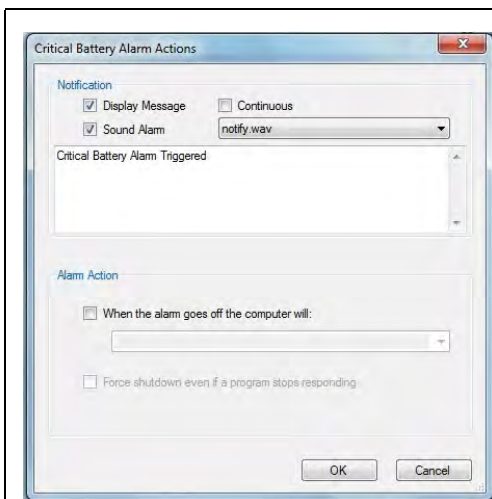
| | |
|---|---|
| | Click on "OK" button to apply new value and exit the dialog. Click on "Cancel" button or "X" to exit dialog without saving change to settings. |
| | Alarm Action Setting<br>Click check box to enable an Alarm action to be performed when the alarm occurs.<br>Click on down arrow at right of setting to open drop down list.<br>Click on desired action: Hibernate or Shutdown. If enabled by the checkbox, the workstation computer will perform the selected action when the alarm level is reached.<br>Click on "OK" button to apply new value and exit the dialog.<br>Click on "Cancel" button or "X" to exit dialog without saving change to settings. |

# Status

Click on the "Status" tab to display RF Signal Strength, Battery Health and firmware information.
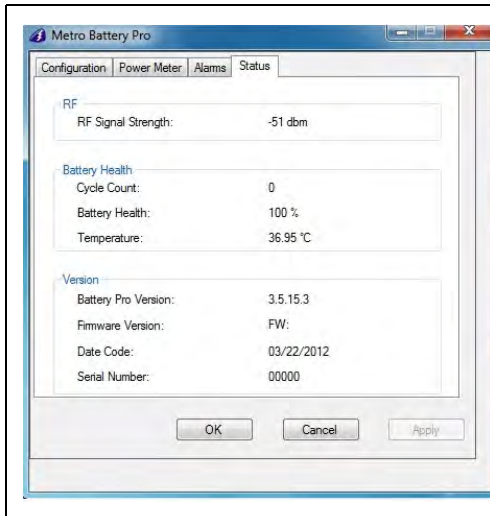
| | |
|---|---|
| Status Tab Display | Status Tab Display |
| | Select "Status" tab in BatteryPro Power Properties dialog. Display includes: 1. Power supply configuration information. 2. Available disk space and required disk space for hibernation. Click on "X" to minimize the dialog back to the status tray icon. Click on another tab to view or edit other settings. |

## Diagnosis

When revealed, clicking on the "Diagnosis" tab provides a running list of power supply and battery data for troubleshooting purposes.
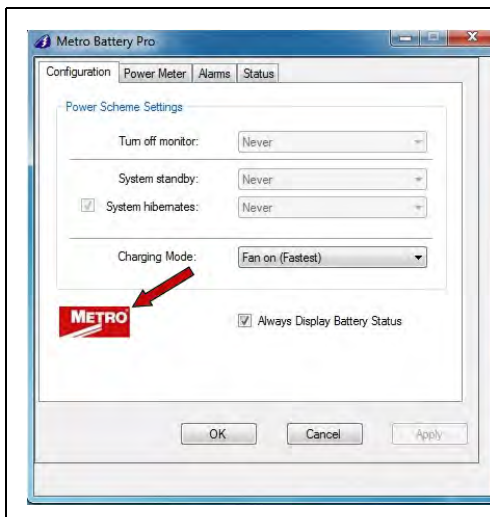
| | |
|---|---|
| | The BatteryPro "Diagnosis" tab is revealed by holding down the "Ctrl" key and clicking on the "Metro" icon in the BatteryPro dialog display. |
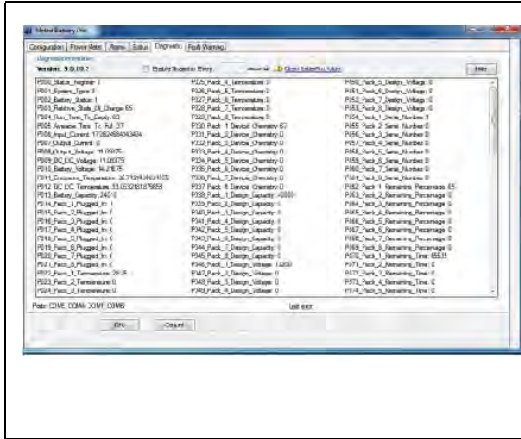
<table>
<tr>
<td></td>
<td>

Diagnosis Tab Display
When the "Diagnosis" tab is first revealed, the BatteryPro Power Properties dialog defaults to its display.

When available, select "Diagnosis" tab in BatteryPro Power Properties dialog.

In this display each battery pack may be individually monitored. The "Hide" button hides the "Diagnosis" tab again.

Click on "X" to minimize the dialog back to the status tray icon.

Click on another tab to view or edit other settings.

</td>
</tr>
</table>

## Hide Diagnosis Tab

Click the Hide button to hide the Diagnosis tab.

## Enable Snapshot Every Checkbox

Click the "Enable Snapshot Every" checkbox to enable debug mode. Enabling the battery data to be recorded to a log file "C:\Program Data\ BatteryPro" at a time interval set by the "Interval" field.

## Data Save Interval

From the drop down; choose the time, in seconds, into the "Interval" field, for the desired time interval to save data to the log file when the debug mode is enabled (see "Enable Snapshot Every Checkbox" on page 4-14).

## Fault Warning

Under the Fault Warning tab, BatteryPro list the faults in the message box, that the power supply encountered during operation. These may include over/under temperature of power supply components or batteries, overload conditions or no batteries connected.
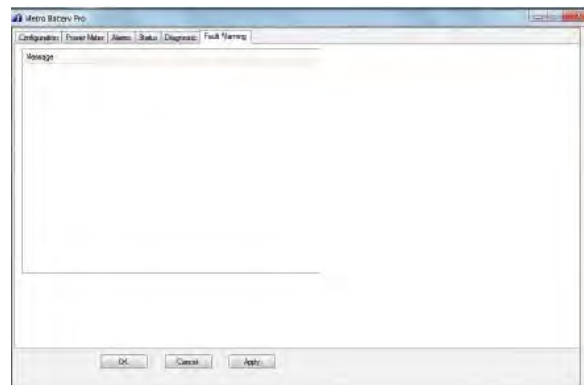
# 5    Maintenance and Storage

# Cleaning and Inspection

Use 70 percent isopropyl alcohol (IPA) diluted with water for cleaning the work station. You may also use one of these products:

- Cidex
- Clorox Clean-Up
- "Green soap" United States Pharmacopoeia (USP)
- Formula 409
- Sani-Cloth. Plus
- Virustat TBQ

**NOTE**

Do not use these products on the All-in-one computer or monitor. Do not wet electrical components or batteries when cleaning the workstation.

Ensure that power supply is off and unplugged. Apply 70 percent isopropyl alcohol to a clean nonabrasive cloth and then wipe. Cleaners applied directly to the power supply or tech tray enclosure could leak inside and cause damage. Be careful not to splash solvents on the workstation.

Periodic checks should be performed for tightness of fasteners and screws. Preferable cleaning and inspection of the workstation should coincide with typical biomedical inspection of medical equipment (e.g. leakage current and ground continuity test). A six (6) month interval for periodic inspection is suggested.

# Transport and Storage

During transport and storage the following conditions should not be exceeded:

- Temperature: -20 °C to 50 °C (-4 °F to 122 °F)
- Humidity: 5 - 90%, non condensing
- Altitude: 12,000 m (40,000 ft.)

# Casters

Regularly inspect the casters. Tighten loose fasteners and replace worn or damaged parts with new InterMetro approved parts. Replace worn or damaged casters immediately.
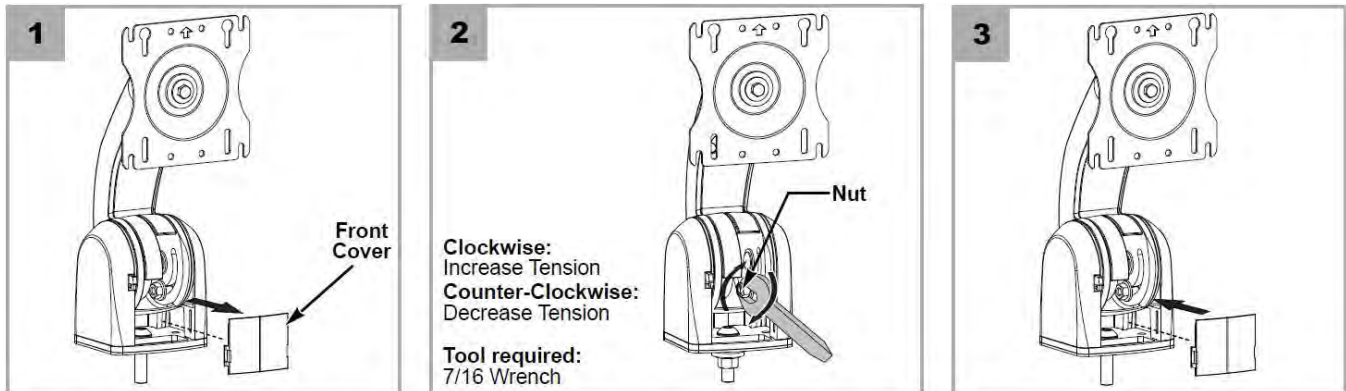
# Monitor Knuckle Tension Adjustment

Monitor mount counterbalance force is created by spring tension. If the below procedure is not followed, the spring may cause the wrench to slip without warning and injury may occur.
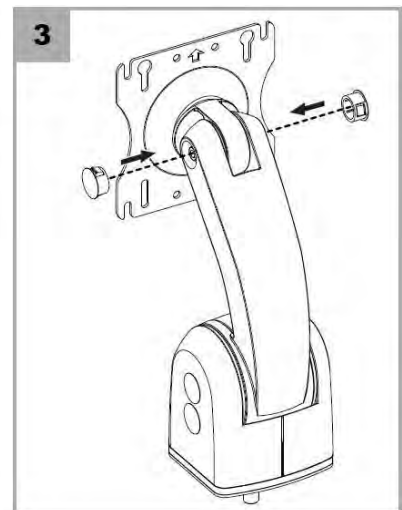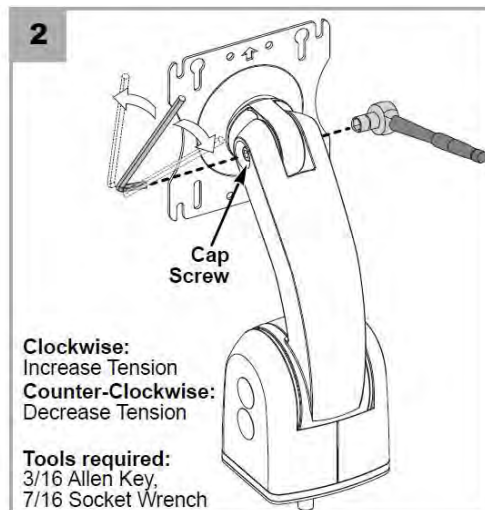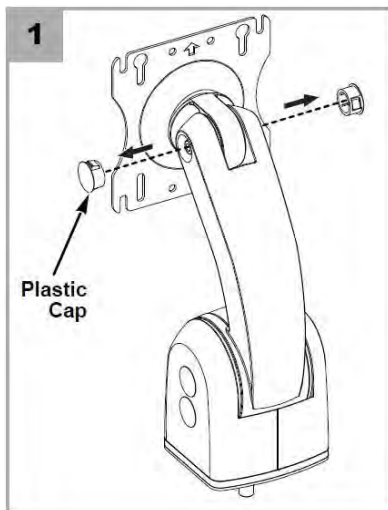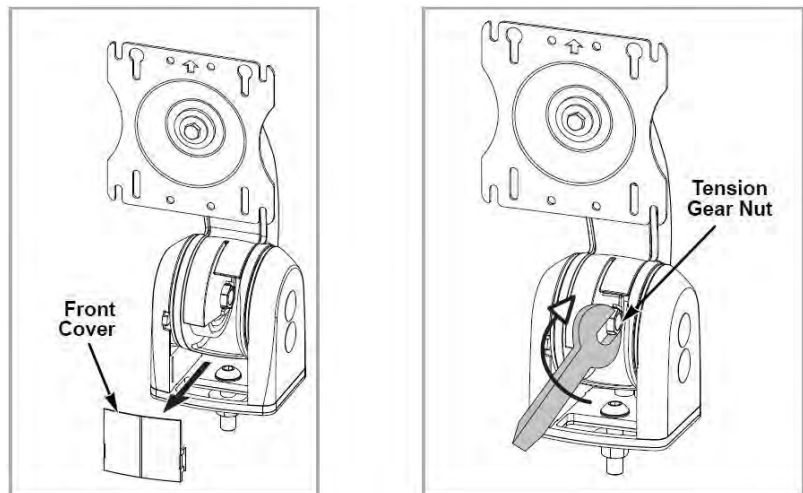
# Monitor Counter-Balance Fine Adjustment



## Monitor Arm Adjustments

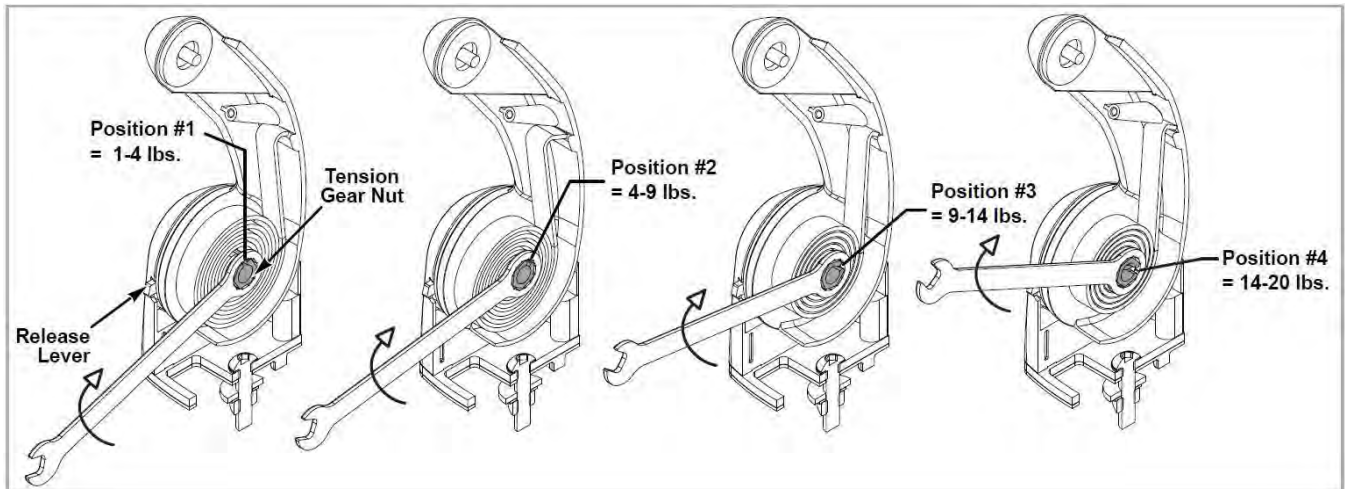To increase the counterbalance spring force:

1. Remove cable manager covers and cables if present. With the 9/16" box end wrench grip the tension gear nut.

2. Rotate gear clockwise until the lever drops into the next forward position.



3. There are 4 functional positions for use with various weight monitors. Position #1 is for mounting lighter weight monitors and Position#4 is for heavier monitors.

**NOTE**

Note the orientation of notch to identify position.



To decrease the counterbalance spring force:

1. Remove cable manager covers and cables if present. With the 9/16" box end wrench grip the tension gear nut.

2. Slightly increase the tension in clockwise direction. Push the release lever on front arm and rotate gear counterclockwise until the lever slides to the previous position.

3. Release the lever so as to lock the gear mechanism in that particular load limit.

4. Follow step 2 to attain other mounting load limits.

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# Appendix A   Troubleshooting

# Overview

Use the tips in this section as a guide. They include solutions to the simplest problems as well as things to observe when trying to diagnose problems.

Consider the following:

- If a problem occurs while you're working, stop immediately. If you continue, you may lose data and destroy problem-related information.
- Observe what is happening. Write down what the computer and any optional devices are doing as well as what actions you took immediately before the problem occurred.
- Is the computer running? Are the cables properly attached to the back of the Power Supply?
- Which part of the system is operating erratically? Keyboard? Display? Power Supply? Each produces different symptoms.
- What program and/or optional devices are you using?
- What appears on the screen? Do you see any messages or random characters? Look up any messages in the documentation for your software.
- Do you hear any beeps? How many? Are they long or short?
- Is the computer making any unusual noises?
- Are the brake casters locked or unlocked?
- Are the fuses in the Power Supply intact?
- See if you can cause the problem to occur again. This may help you understand the source of the problem and will help you describe the problem if you must call InterMetro Customer Service for technical assistance.

# Power Supply and Battery

The power supply battery level flashes LEDs to indicate a detected problem. Warning LED indication legend:

Green or Amber Flashing LED:

Grey LED off:

## Low LED Flashing: Battery Nearing End of Charge

Plug power supply into AC immediately.



## Power Supply Overheating

### AC/DC Module / DC1/DC2/DC3 Module

■ Airflow in the power supply may be restricted due to cooling fan not working properly, fan blocked, temperature sensor may have failed or clogged ventilation slots around the power supply case.

■ Turn off computer equipment and then the power supply.

■ Check that the fan is not blocked. Check the ventilation slots around the power supply case for dust build-up and clean.

■ Turn on the power supply and restart the computer.

■ If this problem continues, contact InterMetro Customer Service.


AC/DC                     DC1, DC2, DC3
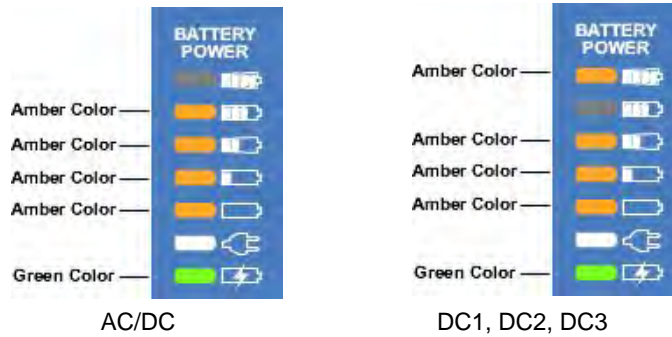
# Battery Pack Overheating, Critical

■ System will shut down in 2 minutes.
■ Immediately turn off computer equipment and then the power supply.
■ Let cool for 2 hours.
■ Turn on the power supply and restart the computer equipment.
■ If this problem continues, contact InterMetro Customer Service.



# Power Supply Low Temperature

■ System temperature below 0 °C (32 °F) has been detected. Ambient temperature is below operating range, temperature sensor has failed or has become disconnected.
■ If power supply or its workstation are in an area where the temperature is below 0 °C (32 °F - freezing), move to an area of ambient temperature above 0 °C (32 °F - freezing), otherwise
■ Turn off computer equipment and then the power supply.
■ Turn on the power supply and restart the computer equipment.

■ If this problem continues, contact InterMetro Customer Service.
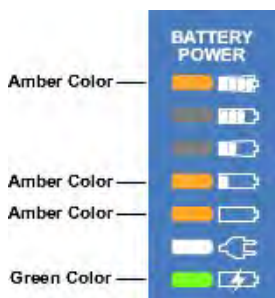


# No Battery Warning

■ No battery packs are detected in the power supply. Battery packs most likely are not connected before the power supply was placed into service.

**NOTE**

The battery cells may not be connected during shipment due to USDOT AND IATA regulations.

■ Turn off computer equipment and then the power supply.

■ Make sure battery packs are connected by performing procedure in Section "Connecting the Power Supply Batteries" above.

■ Turn on the power supply and restart the computer equipment.

■ If this problem continues, contact InterMetro Customer Service.



# Short Circuit or Overload

■ Power supply overloaded.

■ Immediately turn off the power supply.

■ Check your workstation for a possible short or overload.

■ Turn on the power supply and restart the computer equipment.

■ If this problem continues, contact InterMetro Customer Service.



# Power Supply Overheating, Charger Module

■ Airflow in the power supply may be restricted due to cooling fan not working properly, fan blocked, clogged ventilation slots around the power supply case or failed temperature sensor.

■ Turn off computer equipment and then the power supply.

■ Check that the fan is not blocked. Check the ventilation slots around the power supply case for dust build-up and clean.

■ Turn on the power supply and restart the computer equipment.

■ If this problem continues, contact InterMetro Customer Service.



# Low Battery Temperature Warning

Temperature sensor failure or batteries stored in low temperature environment.

# Appendix B   Accessories

# Accessories for AccessPoint Workstations

| Part Number | Description |
|---|---|
| **Accessories** | |
| AP-AL8RAIL | 8" Accessory Rail |
| AP-AL14RAIL | 14" Accessory Rail |
| AP-AL18RAIL | 18" Accessory Rail |
| AP-ALUTILBASKET | Standard Utility Basket |
| AP-AL1GLOVEH | Glove Box Holder (1 Box) |
| AP-ALSSHARPSH | Standard Sharps Holder |
| AP-ALSWASTEH | Standard Waste Basket Holder |
| AP-AL9STORBASKET | 9" Storage Basket |
| AP-ALSCHARTH | Standard Chart Holder |
| AP-AL10STORBASKET | 10" Storage Basket |
| AP-AL2GLOVEH | Glove Box Holder (2 Boxes) |
| AP-AL3CHOSEORG | 3 Clip Hose Organizer |
| AP-AL6CHOSEORG | 6 Clip Hose Organizer |
| AP-AL1UTILHOOK | Single Utility Hook |
| AP-ALSPOLEH | Standard Pole Holder |
| AP-ALREARHANDLE | Poymer Rear Handle w/Mountingn Bracket |
| **Keyboards** | |
| AP-AKBACKLIT | iRocks Backlit Keyboard White |
| AP-AKBCWASH | B Cool Washable White |
| AP-AKUSLIM | iRocks Ultra Slim White |
| AP-AKUSLIMCOV | iRocks Ultra Slim Keyboard Cover |
| AP-AKSSWASH | Seal Shielf Water Proof Keyboard |
| AP-AKBCRCWASH | B Cool Really Cool Washable Keyboard |
| **Mice** | |
| AP-AMOPTICAL | Optical Mouse |
| AP-AMSSWASH | Washable Mouse, Silverstorm |

| Part Number | Description |
|---|---|
| **Scanners** | |
| AP-ASMSYMBOLW | Symbol Scanner Mount, Wireless |
| AP-ASMHHP1902W | HHP 1902 Scanner Mount, Wireless |
| AP-ASMSYMLS2208W | Symbol Scanner LS2208 Mount, Wireless |
| AP-ASMMOTOROLAW | Motorola DS6878 Scanner Mount, Wireless |
| AP-ASHSFRONT | Front Facing Scanner Holder |
| AP-ASHSREAR | Side Rear Facing Scanner Holder |
| AP-ASWCODE2500 | Code 2500 Scanner Wireless Kit |
| AP-ASTSYMLS2208 | Symbol LS2208 Tethered Scanner |
| AP-ASWHHP1902HD | HHP1902 Wireless Scanner with HD Imager |
| AP-ASTHHP1900HHD | HHP 1900HHD-BCMA Tethered Scanner |
| AP-ASWMOTOROLA | Motorola DS6878 Wireless Scanner |
| AP-ASWHHP1902FIPS | HHP 1902 FIPS Wireless Scanner |
| **Storage** | |
| AP-AFNLSDCABINET | Single Drawer, Non Locking Cabinet Kit |
| AP-AFSOSDCABINET | Single Drawer, Southco Locking Cabinet Kit |
| AP-AFSUSDCABINET | Single Drawer, Supra Locking Cabinet Kit |
| AP-AFELSDCABINET | Single Drawer, Southco Electric Locking Cabinet Kit (32 Bit Operating System Only) |
| AP-AFKPSDCABINET | Single Drawer, Southco Electric Keypad Locking Cabinet Kit |
| AP-AFNLDDCABINET | Double Drawer, Non Locking Cabinet Kit |
| AP-AFSODDCABINET | Double Drawer, Southco Locking Cabinet Kit |
| AP-AFSUDDCABINET | Double Drawer, Supra Locking Cabinet Kit |
| AP-AFELDDCABINET | Double Drawer, Southco Electronic Locking Cabinet (32 BIt Operating System Only) |
| AP-AFKPDDCABINET | Double Drawer, Southco Electronic Keypad Cabinet Kit |
| AP-AFNLTDCABINET | Triple Drawer, Non Locking Cabinet Kit |
| AP-AFSOTDCABINET | Triple Drawer, Southco Locking Cabinet Kit |
| AP-AFELTDCABINET | Triple Drawer, Southco Electronic Locking Cabinet Kit (32 Bit Operating System Only) |
| AP-AFKPTDCABINET | Triple Drawer, Southco Electronic Keypad Locking Cabinet Kit |
| AP-AFSOMKCABINET | 2 Drawer Southco McKesson Cabinet Kit |
| AP-AFELMKCABINET | Southco Electronic McKesson Cabinet (32 Bit Operating System Only) Kit |
| AP-AFKPMKCABINET | Double Drawer, Southco Electronic Keypad Locking Cabinet Kit |

# Equipment Return

Should you need to return the equipment, complete the following steps to ensure proper acknowledgment/credit and to ensure the equipment is returned to the correct facility.

1.  Obtain the workstation information from the label, located on the back of the workstation.



2.  Contact InterMetro Customer Service to obtain an RMA (return material authorization) number.

| | |
|---|---|
| 1-800-992-1776 | Americas |
| 905 676 9890 | Canada |
| +31 76 58 77550 | Europe |
| +9714 811 8286 | Middle East |
| +65 6567 8003 | Asia-Pacific |

**NOTE**
Be sure to write the RMA number on the air bill in the reference section and the outside of the package.

# Appendix C   Technical Specifications

# Technical Specifications Metro AccessPoint Workstation

| | |
|---|---|
| Work Surface Height Range | 23" - 48" (584 X 1219 mm) |
| Work Surface | 267 sq in (172, 258 sq mm) |
| Maximum Work Surface Load | 5 lbs |
| Weight | 120 lbs with Laptop and Monitor<br>110 lbs without Computer<br>166 lbs with 4-Tier SecureRx Med Module |
| Overall Height | 72" (178 mm) |
| Base Dimensions | 16.75" x 17.5" (425 X 445 mm) |
| Construction | Aluminum Base, Aluminum Column and Work Surface with Aluminum Support Structure |
| Finish | Industrial Powder Coat |
| Casters | Four Swivel: Two Locking, Two Non-Locking (Low Rolling Resistance on All Surfaces) |
| Input Voltage | 100 - 240 VAC @ 4.5 amps, max |
| Output Voltage | 10.5-16 V Unregulated<br>12-24 V Selectable<br>5-10 V Selectable |
| Battery Technology | Lithium Iron Nanophosphate (Li-Nano)<br>Lithium Iron Phosphate (LiFe)<br>Sealed Lead Acid (SLA) |
| Operating Temperature | 10 °C to 30 °C (50 °F to 86 °F) |
| Computer | Laptop computers up to a screen size of 17".<br>Various thin clients and ultra slim desktops.<br>All-in-one computers with a weight of up to 20 lbs.<br>If capable, computers can be turned on via Wake on LAN or Wake on Power from the workstations keypad. |
| Communication | Wireless LAN connectivity provided by laptop computer, thin client or ultra slim desktop. An antenna external to the computer with MMCX or RP-SMA connector available. |
| Monitor | 22", 24" LED Monitors<br>22" LED Monitor with Touchscreen<br>Dual Monitors |
| Approvals | FCC Part 15 Subpart B, Class A, Industry Canada Class A<br>UL60601-1 and CSA C22.2 No 601.1, 2nd Edition<br>IEC/EN 60601-1-1 (Safety, Medical Equipment), 2nd Edition<br>IEC/EN 60601-1-2 (EMC, Medical Equipment)<br>RoHS compliant (RoHS Directive 2002/95/EC) |

# Appendix D   Warranty Information

# Metro AccessPoint™ Standard Limited Warranty

InterMetro Industries Corporation (hereinafter, "Metro") warrants its AccessPoint mobile computing workstations (hereinafter, "Product") to be free from defects in material and workmanship for a 5-year period on durable mechanical components and for a 2-year period on electrical components from Product ship date. Batteries are not considered mechanical or electrical parts and are covered under a separate warranty. All refurbished power supplies purchased from Metro will be covered for a one (1) year period from date of shipment; any other refurbished equipment purchased directly from Metro will be covered for ninety (90) days from the date of shipment.

## Resolution Procedure

If within thirty (30) days after Customer's discovery of any warranty defects within the warranty period, Customer shall promptly notify Metro in writing of the nature of the defect, or shall notify Metro of the nature of the defect through Metro's Customer Service offices via telephone at 1-800-992-1776 or as specified at www.metro.com. Failure by Customer to give such written notice within the applicable time period shall be deemed an absolute and unconditional waiver of Customer's claim for such defects.

If Metro determines that the Product is covered under this standard warranty then it is within Metro's sole discretion to determine how to best address a customer's warranty issues. If Metro can determine a solution, any necessary parts will be shipped to the Customer at Metro's expense and a Return Merchandise Authorization ("RMA") may be issued, if necessary. If Metro cannot find a solution to the Customer's issue, then the call will be escalated through a tiered process to include Engineering assistance. It If at any time during the warranty period, a customer submits a warranty claim where the Product is later found not to be defective, any on-site service calls and/or replacement Product will be charged to the customer at Metro's then-prevailing prices/rates.

## Replacement Parts and RMA Policy

If Metro issues a RMA to the Customer then all parts specified on the RMA must be returned to Metro with shipping expense to be paid by Metro. Any parts not returned to Metro will be paid for, in full, by the customer. Collect shipments will not be accepted. Metro shall be deemed the owner of all removed and repaired Metro furnished parts from the Product. Product repaired or replaced during the warranty period shall be covered by the foregoing warranty for the remainder of the warranty period or ninety (90) days, whichever is longer.

# What is Covered

Mechanical components covered under this standard warranty include gas spring lifter, monitor mount(s), keyboard tray, casters, drawer slides, key locks, drawers and medication bins. Electrical items covered under this warranty include lifting and/or locking mechanisms, computers, monitor(s), power supply, power cords and cables, fuses, servo motors, USB hub, radio card, inverter, power brick, electronic touch pad, and peripherals such as mouse and keyboard. Only components furnished and installed by Metro onto the Product will be covered under this warranty.

# Warranty Exclusions—What is Not Covered

This Limited Warranty does not cover consumables, including batteries (which are covered under a separate warranty), customer furnished equipment, vital signs monitors, damage or operational malfunction of the Product caused by accident, misuse, neglect, failure to follow proper use instructions, unauthorized repair attempts, or by the integration or addition of peripheral components or Product modifications of parts without Metro's prior written consent. This Limited Warranty does not cover damages or defects due to or caused by abuse, loss, negligence, accident, physical damage, and/or misuse, an Act of God, or unauthorized service or repair of the Product, damage from electrical power problems, usage of parts or components not supplied by Metro, failure to follow product instructions and guidelines, unauthorized changes or alterations to the Product, shipping damage (other than during original shipment from Metro), failure to perform preventive maintenance, or damage caused by peripherals or software or from other external causes not the fault of Metro.

This limited warranty is extended only to the original end user, is non-transferable and terminates if the original purchaser transfers the Product to another person or entity. For this warranty to be valid, the Product must have been purchased directly from Metro or from an authorized representative of Metro. Proof of original ownership may be required.

THE SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF THIS LIMITED WARRANTY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, OR REFUND OF THE ORIGINAL PURCHASE PRICE FOR THE PRODUCT. The limit of the liability of Metro to repair the Product after a reasonable amount of time and a reasonable number of attempts shall be the replacement of the Product or a refund of the original purchase price of the Product. The decision regarding repair or replacement of the Product or refund of the original purchase price shall be at the sole discretion of Metro.

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