

## Magelis® Compact and Smart Devices Supplementary Instructions

Retain for future use.

### Introduction

This bulletin contains supplementary instructions and corrections to the following user manuals:

- *Magelis Compact 15" Industrial PCs User Manual*, document number 35015031 00
- *Magelis Smart 15" User Manual*, document number 35015036 01
- *Magelis Compact 8.4" Industrial PCs User Manual*, document number 35015044 00
- *Magelis Smart 8.4" User Manual*, document number 35015049 00

Read and understand this bulletin before performing any of the procedures in the referenced user manuals. Attach this instruction bulletin to your user manual for future reference.

To help you correlate the supplementary instructions and corrections with the information in the user manuals, the headings beginning on page 2 of this document are worded to match the Table of Contents entries and headings in the user manuals.

### Terminology

- The abbreviation "CF" is used throughout this document in place of "Compact Flash."
- The abbreviation "HDD" is used in place of "Hard Disk Drive."
- The abbreviation "SP2" is used in place of "Service Pack 2."

### Operating Systems

The Compact 15" and Compact 8.4" devices were tested with the Windows® XP Professional Service Pack 2 operating system.

The Smart 15" and Smart 8.4" devices were tested with the Windows® XPe Service Pack 2 operating system.

Make the following changes in your user manual:

- Replace each instance of "Windows® XP Pro" with "Windows® XP Pro SP2," where SP2 means "Service Pack 2."
- Replace each instance of "Windows® XPe" with "Windows® XPe SP2," where SP2 means "Service Pack 2."



## Table of Contents

Make the following changes to the Table of Contents.

- Replace “Safety Warnings for the UK” with “Safety Information for the UK.”
- Replace “Safety Agency Approval” with “Certifications and Standards.”
- Replace “Compliance of Use” with “European (CE) Compliance.”
- Replace “Grounding Cautions” with “Grounding.”

## About the Book

Make the following changes in the subsection “Validity Note.”

- Delete the first paragraph and the subsequent copyright line.
- In the second paragraph, delete the phrase “compliance with.” The paragraph should read:

The present documentation is intended for qualified technical personnel responsible for the implementation, operation, and maintenance of the products described. It contains the information necessary for the proper use of the products. However, those who wish to make a more “advanced” use of our products may find it necessary to consult our nearest distributor in order to obtain additional information.

Make the following changes in the subsection “Related Documents.”

- Delete the reference to NEMA ICS 7.1.

## Product Related Warnings

For Compact and Smart devices supplied by 100–240 Vac, make the following changes to the subsection titled “Product Related Warnings.”

- Change the title of this subsection to “Before You Begin.”
- Replace the existing content of the page with the following information.

## Before You Begin

### **⚠ DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Remove all power from the device before removing any covers or elements of the system, and before installing or removing any accessories, hardware, or cables.
- Unplug the power cable from both the unit and the AC supply power.
- Always use a properly rated voltage sensing device to confirm that power is off.
- Replace and secure all covers or elements of the system before applying power to the device.
- Use only the specified voltage when operating the device. This unit is designed to use 100–240 Vac input.

**Failure to follow these instructions will result in death or serious injury.**

### **⚠ WARNING**

#### **LOSS OF CONTROL**

- The designer of any control scheme must consider the potential failure modes of control paths and, for certain critical control functions, provide a means to achieve a safe state during and after a path failure. Examples of critical control functions are emergency stop and overtravel stop.
- Separate or redundant control paths must be provided for critical control functions.
- System control paths may include communication links. Consideration must be given to the implications of unanticipated transmission delays or failures of the link.<sup>1</sup>
- Each implementation of a Compact or Smart device must be individually and thoroughly tested for proper operation before being placed into service.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

<sup>1</sup> For additional information, refer to NEMA ICS 1.1 (latest edition), “Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control.”

The Compact and Smart devices are highly configurable and are not based on a real-time operating system. Changes to the software or to the settings of the following must be considered new implementations, as discussed in the Danger and Warning messages above.

- System BIOS
- System monitor
- Operating system
- Installed hardware
- Installed software

## Product Related Warnings

For Compact and Smart devices supplied by 24 Vdc, make the following changes to the subsection titled “Product Related Warnings.”

- Change the title of the subsection to “Before You Begin.”
- Replace the existing content of the page with the following information.

## Before You Begin

### **▲ WARNING**

#### **LOSS OF CONTROL**

- The designer of any control scheme must consider the potential failure modes of control paths and, for certain critical control functions, provide a means to achieve a safe state during and after a path failure. Examples of critical control functions are emergency stop and overtravel stop.
- Separate or redundant control paths must be provided for critical control functions.
- System control paths may include communication links. Consideration must be given to the implications of unanticipated transmission delays or failures of the link.<sup>1</sup>
- Each implementation of a Compact and Smart device must be individually and thoroughly tested for proper operation before being placed into service.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

<sup>1</sup> For additional information, refer to NEMA ICS 1.1 (latest edition), “Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control.”

The Compact and Smart devices are highly configurable and are not based on a real-time operating system. Changes to the software or to the settings of the following must be considered new implementations, as discussed in the Danger and Warning messages above.

- System BIOS
- System monitor
- Operating system
- Installed hardware
- Installed software

## Chapter 1 Important Information

### Federal Communications Commission Radio Interference Statement—For U.S.A.

In the subsection “Additional Safety Information,” under the heading “What’s in this Chapter,” make the following changes.

- Replace “Safety Warnings for the UK” with “Safety Information for the UK.”
- Replace “Safety Agency Approval” with “Certifications and Standards.”
- Replace “Compliance of Use” with “European (CE) Compliance.”

Replace the subsection “Federal Communications Commission Radio Frequency Interference Statement—For U.S.A.” with the following information.

This equipment has been tested and found to comply with the Federal Communications Commission (FCC) 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 in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause or be subject to interference with radio communications. To minimize the possibility of electromagnetic interference in your application, observe the following two rules:

- Install and operate the Compact and Smart devices in such a manner that they do not radiate sufficient electromagnetic energy to cause interference in nearby devices.
- Install and test the Compact and Smart devices to ensure that the electromagnetic energy generated by nearby devices does not interfere with their operation.

### **⚠ WARNING**

#### **UNINTENDED EQUIPMENT OPERATION**

Electromagnetic radiation may disrupt the operation of your device. If electromagnetic interference is detected:

- Increase the distance between your Magelis device and the interfering equipment.
- Reorient the Magelis device and the interfering equipment.
- Reroute power and communication lines to the Magelis device and the interfering equipment.
- Connect the Magelis device and the interfering equipment to different power supplies.
- Always use shielded cables when connecting Magelis devices to a peripheral device or another computer.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

## Safety Information for the UK

Make the following changes to the subsection titled “Safety Warnings for the UK.”

- Change the title of this subsection to “Safety Information for the UK.”
- In the Note under the heading “Earthing and Wiring,” delete the phrase “and that the installation is completely safe.” The note should read:

**Note:** The fact that the equipment operates satisfactorily does not imply that the power point is earthed. For your safety, if you have any doubt about the effective earthing of the power point, consult a qualified electrician. Incorrectly wired extension cords are a major cause of fatalities.

Make the following changes to the subsection currently titled “Safety Agency Approval.”

- Change the title of this subsection to “Certifications and Standards.”
- Replace the existing content of the page with the following information.

## Certifications and Standards

### Agency Certifications

Schneider Electric submitted this product for independent testing and qualification by third-party listing agencies. These agencies have certified this product as meeting the following standards.

#### North America

- Underwriters Laboratories Inc., UL508, Industrial Control Equipment
- Canadian Standards Association, Specification C22.2, No. 142, Process Control Equipment

### Compliance Standards

Schneider Electric tested this product for compliance with the following compulsory standards.

#### North America

- Federal Communications Commission, FCC Part 15

#### Europe

- CE
  - Programmable Controllers: IEC 61131-2X
  - EMI: EN55011 (Group 1, Class A) / IEC 61000-3-2, IEC 61000-3-3
  - EMS: EN 61000-6-2

### Qualification Standards

Schneider Electric voluntarily tested this product to additional standards. The additional tests performed, and the standards under which the tests were conducted, are specifically identified in the section Environmental Characteristics.

Make the following changes to the subsection currently titled “Compliance of Use.”

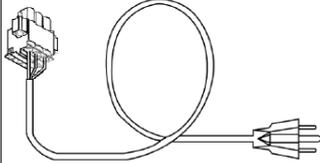
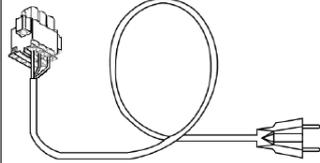
- Change the title of this subsection to “European (CE) Compliance.”
- Replace the existing content of the page with the following information.

## European (CE) Compliance

The products described in this manual comply with European Directives concerning Electromagnetic Compatibility and Low Voltage (CE marking) when used as specified in the relevant documentation, in applications for which they are specifically intended, and in connection with approved third-party products.

## Chapter 2 Physical Overview

In the subsection “Package Contents,” under the heading “Items,” in the last 2 lines of the table, delete the text “Cut-Off.” The table should read:

AC Power Cord with Terminal Block (US plug)	
AC Power Cord with Terminal Block (EU plug)	

In the subsection “Compact Unit Description,” under the heading “Bottom View,” change lines W and X to read:

- W Ethernet LAN1 10/100Base-T (RJ45)
- X Ethernet LAN2 10/100/1000Base-T (RJ45)

Also make this change for every other occurrence of LAN port information.

In the subsection “Interface Specification,” under the heading “Precaution,” replace the existing safety message with the following one.

<b>⚠ WARNING</b>
<p><b>EQUIPMENT DISCONNECTION OR UNINTENDED EQUIPMENT OPERATION</b></p> <ul style="list-style-type: none"> <li>• Ensure that power, communication, and accessory connections do not place excessive stress on the ports. Consider the vibration environment when making this determination.</li> <li>• Securely attach power, communication, and external accessory cables to the panel or cabinet.</li> <li>• Use only commercially available USB cables.</li> </ul> <p><b>Failure to follow these instructions can result in death, serious injury, or equipment damage.</b></p>

## Chapter 3 Characteristics

In the subsection “Product Characteristics,” under the heading “Operating Systems,” delete the phrase “This product works with” from the beginning of the third paragraph. The sentence should read:

The products are delivered with a pre-installed operating system according to the reference ordered. The products have been tested with the following operating systems:

- Microsoft® Windows® XP Professional SP2.

In the subsection “Environmental Characteristics,” under the heading “Characteristics,” replace the existing table with the following table.

Characteristics	Value	Standards
Degree of protection	Front panel: IP65 and NEMA 4x/12 Other sides: IP20	—
Pollution degree	For use in Pollution Degree 2 environment	—
Surrounding air temperature during operation	5 to 50 °C (41 to 122 °F)	EN 61131-2, UL compliant
Storage temperature	-20 to 60 °C (-4 to 140 °F)	IEC 68-2-2 tests Bb and Ab, IEC 68-2-14 tests Na, and EN 61131-2 compliant
Operating altitude	0 to 2000 m (0 to 6561 ft)	—
Vibration (in operation)	0.075 mm amplitude from 10–57.6 Hz, 1 g amplitude from 57.6–150 Hz	—
Shock resistance (in operation)	15 g over 11 ms	IEC 68-2-27 Ea test and EN 61131-2 compliant
Surrounding air humidity during operation	10 to 85% RH Wet bulb temperature: 29 °C (84.2 °F) max. with no condensation	—
Storage humidity	10 to 85% RH Wet bulb temperature: 29 °C (84.2 °F) max. with no condensation	—
Immunity to interference	High frequency interference	EN 61131, IEC 1000-4-3/6 Level 3
	Electromagnetic waves	Class A – EN 55022 / 55011
	Information technology equipment	EN 61131-2, UL/CSA and IEC 529 / IEC 950

In the subsection “Environmental Characteristics,” delete the heading “Certifications,” and all associated text.

## Chapter 4 Dimensions/Assembly

In the subsection “Creating a Panel Cut for Cabinet Installation,” under the heading “Precaution,” delete the last 2 bullets in the Note.

In the subsection titled “Installing the Compact” or “Installing the Smart,” under the heading “Installation Location,” delete the existing safety message and replace it with the following one.

### **▲ WARNING**

#### **UNINTENDED EQUIPMENT OPERATION**

- Avoid placing the Magelis Smart or Compact device next to other equipment that might cause overheating.
- Keep the Magelis Smart or Compact device away from arc-generating equipment such as magnetic switches and non-fused breakers.
- Avoid using the device in environments where corrosive gases are present.
- Install the device in a location providing a minimum clearance of 50 mm (2 in.) or more from all adjacent structures and equipment.
- Install the device with sufficient clearance to provide for cable routing and cable connector dimensions.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

In the subsection titled “Installing the Compact,” or “Installing the Smart,” under the heading “Vibration and Shocks,” add the following safety message after the first paragraph.

### **▲ CAUTION**

#### **EXCESSIVE VIBRATION**

- Plan your installation so that the device’s shock and vibration tolerances are not exceeded.
- Ensure that the panel opening and thickness are within the specified tolerances.
- Before mounting the device into a cabinet or panel, ensure that the installation gasket is attached to the unit. The installation gasket provides additional protection from vibration.
- The recommended torque for mounting the Compact and Smart devices is 0.5 N•m (4.5 lb-in).

**Failure to follow these instructions can result in injury or equipment damage.**

In the subsection titled “Installing the Compact” or “Installing the Smart”:

- Under the first occurrence of the heading “Precaution,” delete the existing safety message for Loss of Seal.
- Delete the heading “Installation Gasket” and all associated text.
- Under the second occurrence of the heading “Precaution,” delete the existing safety message for Risk of Equipment Damage.
- Replace all of the deleted text with the information in “Installation Gasket” and “Installation Fasteners” on page 9 of this document.

## Installation Gasket

The installation gasket is provided in the maintenance kit, reference number MPC YK 50 MNT KIT.

Use of the installation gasket may help extend the operating life of your Compact or Smart device. The gasket is required to meet the protection ratings (IP65 or IP20) of the unit, and provides additional protection from vibration. Even if moisture protection is not required, install the gasket delivered with your Magelis device.

### **▲ CAUTION**

#### **LOSS OF SEAL**

- Inspect the installation gasket prior to installation or reinstallation, and periodically as required by your operating environment.
- Replace the gasket if visible scratches, tears, dirt, or excessive wear are noted during inspection.
- Do not stretch the gasket unnecessarily or allow the gasket to contact the corners or edges of the frame.
- Ensure that the gasket is fully seated in the installation groove.
- Install your Compact or Smart device into a panel or enclosure face that is flat and free of scratches or dents.
- Tighten the installation fasteners using a torque of 0.5 N•m (4.5 lb-in).

**Failure to follow these instructions can result in injury or equipment damage.**

## Installation Fasteners

The screw installation fasteners are required to maintain the NEMA Type 4 enclosure rating.

### **▲ CAUTION**

#### **OVERTORQUE AND LOOSE HARDWARE**

- Do not exert more than 0.6 N•m (5.3 lb-in) of torque when tightening the installation fastener, enclosure, accessory, or terminal block screws. Tightening the screws with excessive force can damage the plastic casing of the Compact and Smart devices.
- When installing or removing screws, be careful that they do not fall inside the device chassis.

**Failure to follow these instructions can result in injury or equipment damage.**

## Chapter 6 Main Power Connection

In the chapter “Main Power Connection,” in the subsection “What’s in this Chapter,” change “Grounding Cautions” to “Grounding” in the table.

In the section “Connecting the AC Power Cord,” in the subsection “Precaution:”

- Add the following sentence to the beginning of the subsection:  
 When connecting the unit's power cord to the power connector on the unit, first ensure that the power cord is disconnected from the main AC power supply.
- Replace the existing safety message with the Danger message on page 4 of this document.

Change the title of the section called “Grounding Cautions” to “Grounding,” and replace the entire section with the information in “Grounding” on pages 10–11 of this document.

### Grounding

The grounding resistance between the frame ground (FG) and the earth ground must be 100 Ω or less. When using a long grounding wire, check the resistance and, if required, replace a thin wire with a thicker wire, and place the wire in a duct. In addition, refer to “Ground Wire Dimensions” below for wire thickness and maximum line lengths.

#### Ground Wire Dimensions

Wire Thickness	Maximum Line Lengths
2 mm <sup>2</sup> (14 AWG)	30 m (98 ft)
	60 m (196 ft) round trip
1.5 mm <sup>2</sup> (16 AWG)	20 m (65 ft)
	40 m (131 ft) round trip

### ▲ WARNING

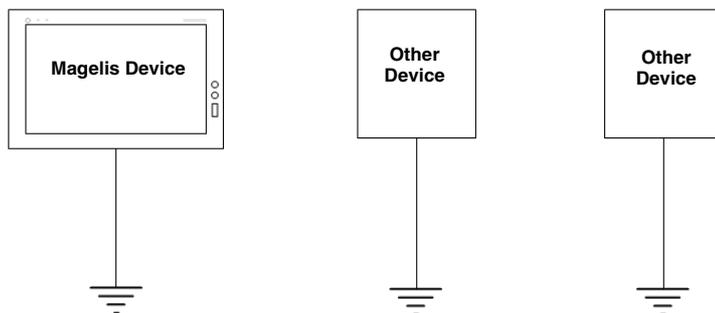
#### UNINTENDED EQUIPMENT OPERATION

- Use only the authorized grounding configurations shown below.
- Confirm that the grounding resistance is 100 Ω or less.
- Test the quality of your ground connection before applying power to the device. Excess noise on the ground line can disrupt the device's operations.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

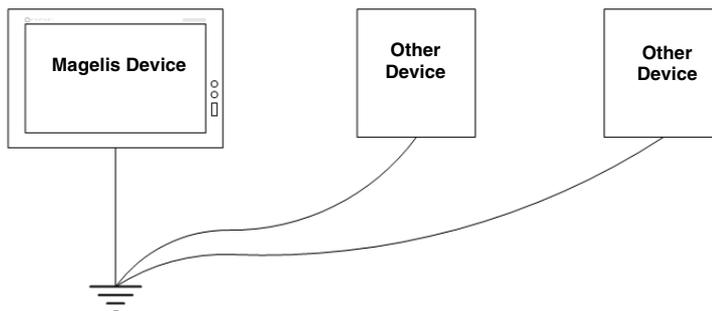
#### Dedicated Ground—Permitted

Connect the frame ground (FG) to a dedicated ground.



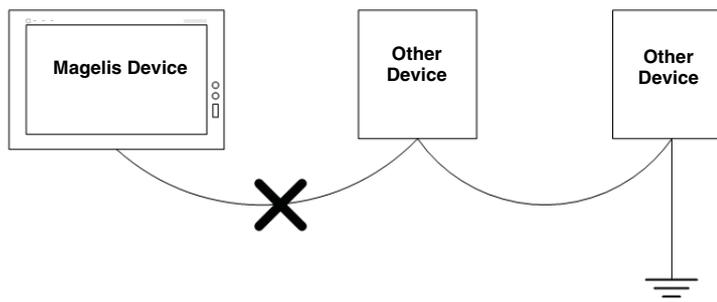
**Shared Ground—Permitted**

If a dedicated ground is not possible, use a shared ground, as shown below.



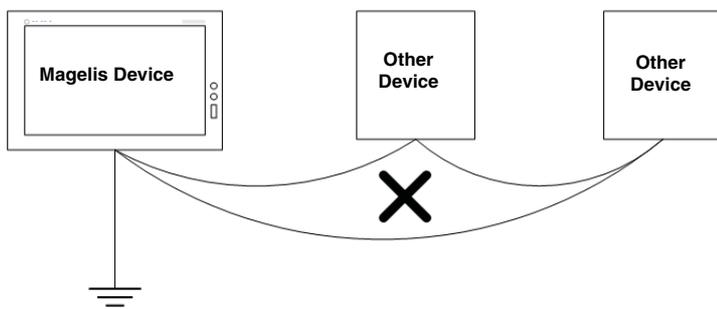
**Shared Ground—Not Permitted**

Do not connect the Compact device to ground through other devices.



**Shared Ground—Ground Loop Not Permitted**

When connecting an external device with the signal ground (SG), ensure that no ground loop is created. The Compact and Smart frame ground and shared ground are connected internally.



**Grounding Procedure**

When grounding, follow the procedure given below:

Step	Action
1	Check that the grounding resistance is 100 Ω or less.
2	The SG and FG terminals are internally connected inside the unit. When connecting the SG line to another device, ensure that the design of the system or connection does not produce a ground loop.
3	Wherever possible, use 2 mm <sup>2</sup> (14 AWG) wire to make the ground connection. If this isn't possible, ensure that the grounding wire gauge and length conform to the table in "Ground Wire Dimensions" on page 10 of this document and to Step 1 above. Create the connection point as close to the unit as possible, and make the wire as short as possible.

## Connecting I/O Signal Lines

In the section “Connecting I/O Signal Lines,” in the subsection “Precautions,” replace the existing safety message with the following one.

<b>⚠ WARNING</b>
<b>UNINTENDED EQUIPMENT OPERATION</b> Electromagnetic radiation may interfere with control communications. <ul style="list-style-type: none"><li>• Do not wire I/O lines in proximity to power cables, radio devices, or other equipment that may cause electromagnetic interference.</li><li>• If wiring of I/O lines near power lines or radio equipment is unavoidable, use shielded cables, and ground one end of the shield to the frame ground (FG).</li></ul> <b>Failure to follow these instructions can result in death, serious injury, or equipment damage.</b>

## Chapter 8 Hardware Modifications

In Chapter 8, “Hardware Modifications,” in the section “Before installation,” in the subsection “Overview,” replace all text and safety messages with “Overview” on pages 13–14 of this document. Also add this information to Chapter 11, “Maintenance,” before the section “Reinstallation Procedure.”

### Overview

For the detailed installation procedures for optional equipment and accessories, refer to the OEM (Original Equipment Manufacturer) documentation that came with that equipment.

#### **⚠ DANGER**

##### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Remove all power from the device before removing any covers or elements of the system, and before installing or removing any accessories, hardware, or cables.
- Unplug the power cable from both the unit and the AC supply power.
- Always use a properly rated voltage sensing device to confirm that power is off.
- Replace and secure all covers or elements of the system before applying power to the unit.
- Use only the specified voltage when operating the device.

**Failure to follow these instructions will result in death or serious injury.**

#### **⚠ DANGER**

##### **CHEMICAL BURNS TO EYES OR SKIN**

- Do not use tools to operate the touch panel, or in the vicinity of the display.
- When placing the display face-down, select a clean, level, non-abrasive surface. If necessary, place a soft, non-abrasive pad on the surface before lowering the unit.
- If a leak in the LCD panel is discovered and you come in contact with the liquid crystal material, follow these procedures:
  - In the case of contact with eyes or mouth, flush with running water for 15 minutes minimum.
  - In the case of contact with skin or clothing, wipe off the liquid crystal material and wash with soap and running water for 15 minutes.
  - If liquid crystal is ingested, induce vomiting, rinse mouth, and then drink a large quantity of water.
  - Follow any other hazardous substances safety procedures required by your facility.

**Failure to follow these instructions will result in death or serious injury.**

**▲ CAUTION**

**OVERTORQUE AND LOOSE HARDWARE**

- Do not exert more than 0.6 N•m (5.3 lb-in) of torque when tightening the installation fastener, enclosure, accessory, or terminal block screws. Tightening the screws with excessive force can damage the plastic casing of the Compact and Smart units.
- When installing or removing screws, be careful that they do not fall inside the device chassis.

**Failure to follow these instructions can result in injury or equipment damage.**

**▲ CAUTION**

**STATIC SENSITIVE COMPONENTS**

Compact and Smart internal components, including accessories such as RAM modules and expansion boards, can be damaged by static electricity. Observe the electrostatic precautions below when handling such components

**Failure to follow these instructions can result in injury or equipment damage.**

- Keep static producing materials such as plastic, upholstery, and carpeting out of the immediate work area.
- Do not remove ESD-sensitive components from their anti-static bags until you are ready to install them.
- When handling static-sensitive components, wear a conductive wrist strap connected to the component through a minimum of 1 MΩ resistance.
- Avoid touching exposed conductors or component leads with skin or clothing.

In Chapter 8, “Hardware Modifications,” in the section “Removing the Cover,” in the subsection “How to Remove the Unit’s Cover,” add the following two steps as the first and second steps of the table.

Step	Action
1	Shut down Windows in an orderly fashion, and remove all power from the device.
2	Place the unit on a clean, level surface with the display face-down. If necessary, place a soft, non-abrasive pad on the surface before lowering the unit.

Insert these same two steps at the beginning of all procedures in the user manual that involve mounting, dismounting, handling, or opening the device. In Chapter 8, “Hardware Modifications,” these procedures include:

- USB Front Face
- Installing a Larger RAM Chip
- Expansion Board (PCI) Installation
- PCMCIA Card Installation
- CF Card Installation and Removal
- USB Cable Clamp Attachment/Removal

In Chapter 11, "Maintenance," these procedures include:

- Reinstallation Procedure
- Lithium Battery
- Cleaning the Fan Filter
- Installing a Replacement Gasket
- Periodic Inspection

Refer to Chapter 11, "Maintenance," on page 19 of this document.

In Chapter 8, "Hardware Modifications," insert the following safety messages before the procedures for the following sections:

- USB Front Face
- Installing a Larger RAM Chip
- Expansion Board (PCI) Installation
- PCMCIA Card Installation
- CF Card Installation and Removal
- USB Cable Clamp Attachment/Removal

## **⚠ DANGER**

### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Read and understand the safety information on pages 13–14 of 30072-452-22 before attempting this procedure.

**Failure to follow these instructions will result in death or serious injury.**

## **⚠ DANGER**

### **CHEMICAL BURNS TO THE EYES OR SKIN**

Read and understand the safety information on pages 13–14 of 30072-452-22 before attempting this procedure.

**Failure to follow these instructions will result in death or serious injury.**

## **⚠ CAUTION**

### **OVERTORQUE AND LOOSE HARDWARE**

Read and understand the safety information on pages 13–14 of 30072-452-22 before attempting this procedure.

**Failure to follow these instructions can result in injury or equipment damage.**

## **⚠ CAUTION**

### **STATIC SENSITIVE COMPONENTS**

Read and understand the safety information on pages 13–14 of 30072-452-22 before attempting this procedure.

**Failure to follow these instructions can result in injury or equipment damage.**

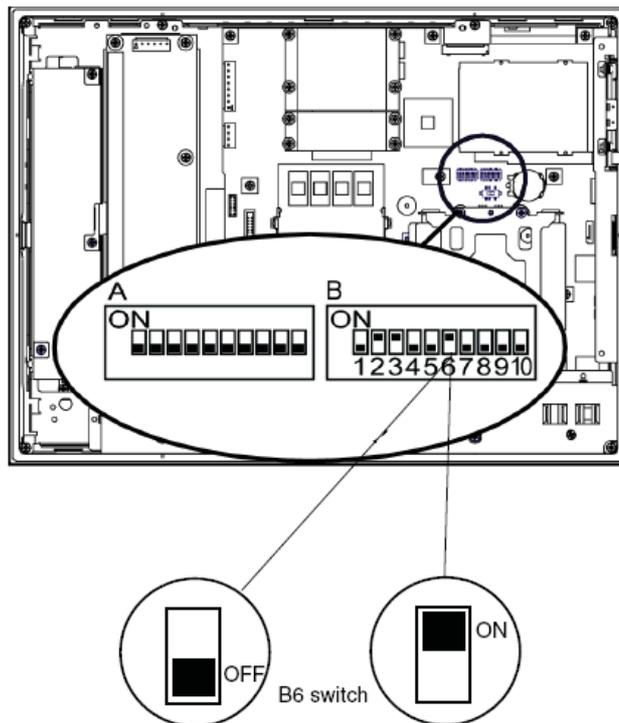
In the Compact 15" and Smart 15" user manuals, in the section "USB Front Face," replace the existing safety message for "Equipment Malfunction" with the following message. The figure is included in this document to provide context for the safety message.

## ⚠ WARNING

### UNINTENDED EQUIPMENT OPERATION

Before replacing the Compact or Smart cover, confirm that all switches other than B6 are still in their default positions as indicated in the figure shown below.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**



In the section “CF Card Installation and Removal,” in the subsection “Precautions for using a CF Card,” delete all safety messages and text before the procedure table, and replace them with the following information.

## Overview

The Compact device’s operating system views the CF card as a hard disk. Proper handling and care of the CF card helps extend the life of the card. Familiarize yourself with the card before attempting to insert or remove the card.

## Precautions

### **▲ CAUTION**

#### **COMPACT FLASH (CF) CARD DAMAGE AND DATA LOSS**

- Remove all power before doing anything with the CF card.
- Use only CF cards manufactured by Schneider Electric. The performance of the Compact and Smart devices has not been tested using CF cards from other manufacturers.
- Confirm that the CF card is correctly oriented before insertion.
- Do not bend, drop, or strike the CF card.
- Do not touch the CF card connectors.
- Do not disassemble or modify the CF card.
- Keep the CF card dry.

**Failure to follow these instructions can result in injury or equipment damage.**

## Chapter 10 System Monitoring

In Chapter 10, "System Monitoring," in the section "System Monitor Overview," in the subsection "External Input Signals," replace the existing safety message with the following text and safety message.

The Reliability, Availability and Serviceability (RAS) input circuits must be supplied by an external DC power supply.

### **▲ CAUTION**

#### **CURRENT DAMAGE TO INPUTS**

Use a protective impedance or other reasonable measures to limit the current to each input to 10 mA or less.

**Failure to follow these instructions can result in injury or equipment damage.**

In Chapter 10, "System Monitoring," in the section "System Monitor Overview," in the subsection "External Output Signals," replace the existing safety message with the following text and safety message.

The RAS input circuits must be supplied by an external DC power supply.

### **▲ CAUTION**

#### **CURRENT DAMAGE TO OUTPUTS**

Use a protective impedance, fuse, or other reasonable measures to limit the current to each output to 120 mA or less.

**Failure to follow these instructions can result in injury or equipment damage.**

In Chapter 10, "System Monitoring," in the section "System Monitor Overview," in the subsection "Presentation," add the following note after the last paragraph:

**NOTE:** In this chapter, we discuss a feature of the system-monitoring software called the "SMART Alarm." This is not to be confused with the Magelis Smart terminal itself. SMART, short for "Self-Monitoring Analysis and Reporting Technology," is a hardware-based function that acts as an early warning system for pending hard disk drive problems. The system monitoring software included with your Magelis product can read and report the information generated by the hard drive's SMART technology.

In Chapter 10, "System Monitoring," in the section "System Monitor Property," in the subsection "Setting Up the System Monitor Properties," add the following safety message after the table describing the system parameters available for monitoring.

### **▲ CAUTION**

#### **HARD DISK DAMAGE**

A Self-Monitoring Analysis and Reporting Technology (SMART) Alarm indicates the potential for hard disk damage and data loss. If a SMART Alarm is received:

- Remove the Compact or Smart device from service and back up all data on the hard drive.
- Depending on the error, reinstall the operating system or replace the hard disk drive.

**Failure to follow these instructions can result in injury or equipment damage.**

## Chapter 11 Maintenance

In Chapter 11, "Maintenance," add the following two steps and safety messages to the beginning of all procedures that involve mounting, dismantling, handling, or opening the device. These procedures include:

- Reinstallation Procedure
- Lithium Battery
- Cleaning the Fan Filter
- Installing a Replacement Gasket
- Periodic Inspection

Step	Action
1	Shut down Windows in an orderly fashion, and remove all power from the device.
2	Place the unit on a clean, level surface with the display face-down. If necessary, place a soft, non-abrasive pad on the surface before lowering the unit.

### **⚠ DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Read and understand the safety information on pages 13–14 of 30072-452-22 before attempting this procedure.

**Failure to follow these instructions will result in death or serious injury.**

### **⚠ DANGER**

#### **CHEMICAL BURNS TO THE EYES OR SKIN**

Read and understand the safety information on pages 13–14 of 30072-452-22 before attempting this procedure.

**Failure to follow these instructions will result in death or serious injury.**

### **⚠ CAUTION**

#### **OVERTORQUE AND LOOSE HARDWARE**

Read and understand the safety information on pages 14–15 of 30072-452-22 before attempting this procedure.

**Failure to follow these instructions can result in injury or equipment damage.**

### **⚠ CAUTION**

#### **STATIC SENSITIVE COMPONENTS**

Read and understand the safety information on pages 13–14 of 30072-452-22 before attempting this procedure.

**Failure to follow these instructions can result in injury or equipment damage.**

In Chapter 11, "Maintenance," in the section "Regular Cleaning and Maintenance," in the subsection "Precaution," replace the existing safety message with the following one.

## **▲ CAUTION**

### **HARMFUL CLEANING SOLUTIONS**

- Do not clean the unit or any component of the unit with materials such as paint thinner, organic solvents, or acids, or with any abrasive cleaners.
- Use only a mild soap or detergent that will not harm the polycarbonate material of the screen.

**Failure to follow these instructions can result in injury or equipment damage.**

In Chapter 11, "Maintenance," replace the existing Loss of Seal safety message with the version of that message on page 9 of this document.

In Chapter 11, "Maintenance," in the section "Regular Cleaning and Maintenance," in the subsection "Lithium Battery," replace the existing safety message and text with the following:

The Compact and Smart devices contain lithium batteries, which are used to save certain system data such as the date and time.

## **▲ WARNING**

### **EXPLOSION, FIRE, OR CHEMICAL HAZARD**

Follow these instructions for the Lithium batteries:

- Do not recharge, disassemble, heat above 100 °C (212 °F), or incinerate the batteries.
- Recycle or properly dispose of used batteries.
- Replace batteries with an identical type.
- Follow all battery manufacturer's instructions.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**





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