

## Preface

---

This manual provides detailed information on the hardware features of CompuScope PCI Analog Input cards and CompuScope PCI Digital Input cards. This information includes specifications, block diagrams, connector descriptions, memory architecture descriptions, etc.

In addition, this guide describes available standard and custom features.

Please note that this manual is not intended as a reference for CompactPCI bus CompuScope cards. If you did not receive the correct guide, please contact the factory for a replacement.

It is assumed that the reader is familiar with using PCs, Windows and PCI bus cards. No description is included for these topics. If you are not comfortable with these areas, it is strongly recommended that you refer to the relevant product guides.

To maintain the accuracy of the information contained herein, we reserve the right to make changes to this manual from time to time.

Note: For brevity, in this manual,

“CompuScope 82G” is abbreviated as “CS82G”

“CompuScope 8500” is abbreviated as “CS8500”

“CompuScope 12400” is abbreviated as “CS12400”

“CompuScope 12100” is abbreviated as “CS12100”

“CompuScope 1220” is abbreviated as “CS1220”

“CompuScope 14200” is abbreviated as “CS14200”

“CompuScope 14105” is abbreviated as “CS14105”

“CompuScope 14100” is abbreviated as “CS14100”

“CompuScope 1610” is abbreviated as “CS1610”

“CompuScope 1602” is abbreviated as “CS1602”

“CompuScope 3200” is abbreviated as “CS3200”

“Octopus Multi-Channel Digitizer Family” is abbreviated as “Octopus Family”

## Preventing ESD

---

Before installing or servicing this product, read the ESD information below:



**CAUTION.** *Static discharge can damage any semiconductor component in this instrument.*

When handling this instrument in any way that requires access to the on-board circuitry, adhere to the following precautions to avoid damaging the circuit components due to electrostatic discharge (ESD).

1. Minimize handling of static-sensitive circuit boards and components.
2. Transport and store static-sensitive modules in their static-protected containers or on a metal rail. Label any package that contains static-sensitive boards.
3. Discharge the static voltage from your body by wearing a grounded antistatic wrist strap while handling these modules and circuit boards. Perform installation and service of static-sensitive modules only at a static-free work station.
4. Nothing capable of generating or holding a static charge should be allowed on the work station surface.
5. Handle circuit boards by the edges when possible.
6. Do not slide the circuit boards over any surface.
7. Avoid handling circuit boards in areas that have a floor or work-surface covering capable of generating a static charge.

## General safety summary

---

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it. To avoid potential hazards, use this product only as specified.

**Observe all terminal ratings.**

To avoid fire or shock hazard, observe all ratings and markings on the product. Consult the product manual for further ratings information before making connections to the product.

Do not apply a potential to any terminal, including the common terminal, that exceeds the maximum rating of that terminal.

**Do not operate with suspected failures.**

If you suspect there is damage to this product, have it inspected by qualified service personnel.

**Do not operate in wet/damp conditions.**

**Do not operate in an explosive atmosphere.**