

2500-IADP I/O Adapter for Series 500

Classic



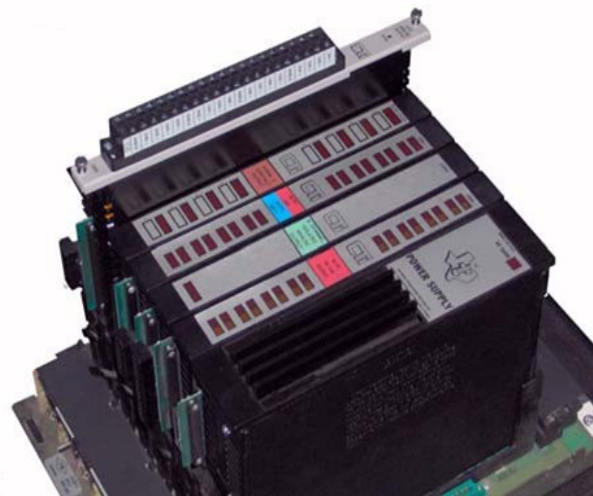
Features

- Series 500 base format
- Provides mechanical and electrical adaptation of CTI 2500 Series™ I/O modules to operate in a Series 500 base
- Compatible with all CTI 2500 Series™ I/O discrete and analog I/O modules
- Allows replacement of failed Series 500 I/O modules with inexpensive and widely available CTI 2500 Series™ I/O
- Allows you to plan your system upgrade according to your schedule and budget
- Preserves your investment in replacement modules
- Can be used with a CTI ethernet module to provide ethernet connectivity for Series 500 bases (note: a special version ethernet module is required - contact CTI for information)

Description

The 2500-IADP is an I/O Adapter which allows the use of CTI 2500 Series I/O modules in Texas Instruments Series 500 I/O bases. It provides a transparent path for upgrading old Series 500 systems without the requirement to completely replace the system.

Failed 500 Series I/O modules can be replaced by plugging CTI 2500 Series™ modules into the 2500-IADP. Then, when your budget allows, you can plan a complete upgrade of your 500 system with CTI 2500 Series™ - *without losing your investment in the replaced I/O modules!*



ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.



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2500-IADP I/O Adapter for Series 500

Using the 2500-IADP

The 2500-IADP provides electrical and mechanical adaptation of a CTI 2500 Series I/O module to the Series 500 I/O slot. However, because the Series 500 system employed field wiring that was terminated at the I/O base, conversion using the 2500-IADP will often involve re-routing of the I/O wiring to the front of the new module.

Here are the basic steps involved:

1. Compare the Series 500 module you plan to replace with the new CTI 2500 series module. As an aid in selecting a replacement, the chart on page 2 shows CTI replacements for the most commonly used Series 500 I/O modules.
 - A. Do they have the same number of points / channels? If not, you may need to make addressing changes in your program.
 - B. Do the new modules use the same PLC login? Are overflow / underflow and other error and status bits reported in the same manner? For analog modules, are the inputs scaled to the same range? If not, you will need to make addressing and logic changes in your program.
 - C. How does the field wiring for the new module differ from the old one?
2. Develop a re-wiring plan for replacement of your old module. There are two basic approaches:
 - A. Run jumper wires from the I/O terminations on your Series 500 base up to the I/O connector for the new CTI 2500 Series module.
 - B. Remove the I/O terminations on the Series 500 base and run new wires from your panel termination up to the new CTI 2500 Series module.
3. Implement your re-wiring plan and verify that your rewiring has been completed accurately.
4. Make any necessary changes to the I/O
5. Install the 2500-IADP and your new CTI 2500 Series module.

See the next page for important mounting dimensions.

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2500-IADP I/O Adapter for Series 500



Note: The above dimensions are close approximations. When preparing for the installation use these dimensions to determine the clearances required inside the control cabinet which houses the existing 500 Base.

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2500-IADP I/O Adapter for Series 500

| Series 500 Part | Description | CTI Replacement Number |
|-----------------|----------------------------|------------------------|
| 500-5001 | 110VAC 8pt Input | 2588-8, 2589-A |
| 500-5002 | 240VAC 8pt Input | 2588-8, 2589-A |
| 500-5005 | 24VDC 8pt Input | 2588-8, 2589-A |
| 500-5006 | 48VDC 8pt Input | 2588-8, 2589-A |
| 500-5007 | TTL 8pt Input | 2585 |
| 500-5008 | 24VDC 8pt Input | 2588-8, 2589-A |
| 500-5009 | Analog 4pt Input | 2558, 2550-A |
| 500-5010 | 24/48 VAC 8pt Output | 2598-8, 2599 |
| 500-5011 | 110VAC 8pt Output | 2598-8, 2599 |
| 500-5012 | 240VAC 8pt Output | 2598-8, 2599 |
| 500-5013 | 24/48VDC 8pt Output | 2596-8, 2597 |
| 500-5016 | Analog 2pt Output | 2562, 2560-A |
| 500-5018 | Word 8pt Input | 2585 |
| 500-5019 | Word 8pt Output | 2595 |
| 500-5030 | 24VDC 32pt Input | 2589-A |
| 500-5031 | 24VDC 32pt Output | 2597 |
| 500-5032 | 110VAC 6pt Isolated Input | 2580 |
| 500-5033 | 110VAC 4pt Isolated Output | 2590-A |
| 500-5037A | Analog 8pt Input | 2558, 2550-A |
| 500-5047A | Analog 8pt Output | 2562, 2560-A |
| 500-5048 | 24VDC 6pt Isolated Input | 2581 |
| 500-5049 | 24VDC 4pt Isolated Output | 2591-A |
| 500-5051 | 8pt Thermocouple Input | 2559-TC |
| 500-5052 | 16pt RTD Input | 2557 |
| 500-5055 | 110VAC 32pt Input | 2589-A |
| 500-5056 | 24/110VAC 32pt Output | 2599 |
| 500-5061 | 8pt Relay | 2534, 2530 |
| 500-5062 | 8pt Relay | 2534, 2530 |
| 500-5187 | 16pt 110VDC input | 2589-A |
| 500-5192 | 32pt 48VDC input | 2589-A |
| 500-5194 | 32pt TTL input | 2585 (16pt) |

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