2500-RBC
Profibus Remote Base Controller

Description

The 2500-RBC Profibus Remote Base Controller (RBC) allows a CTI 2500 Series® or Simatic® 505 I/O base to function as a slave node on a Profibus DP I/O channel that complies with the PROFIBUS standard. The Remote Base Controller is intended to be a replacement for the Siemens® 505-6870 RBC.

Features

- Replaces Siemens® 505-6870
- Compatible with CTI 2500 Series, Simatic® 505, Siemens® S5® and S7®, as well as other Profibus masters
- Can be used in all 4, 8, and 16 slot CTI and Siemens® bases
- Supports communication speeds from 9600 baud (max cable distance per segment: 1200m) up to 12 Mbaud (max cable distance per segment: 100m)
- Supports all CTI and Siemens® discrete and analog I/O modules
- GSD file is provided with the RBC to allow configuration by WORKSHOP or COMPROFI
- LED display for error codes and station address

Specifications

- **Ports:**
  Profibus 9-pin female, pins 2,7 no connect
- **Profibus Baud Rates:**
  9600, 19.2K, 93.75K, 187.5K, 1.5M, 3.0M, 6.0M, 12M
- **Profibus Port Isolation:**
  1500VDC
- **Output State Selection:**
  Determines state of outputs when I/O channel communication is lost:
  - off: all outputs are turned off
  - freeze: all outputs hold their last value
- **Dipswitch Options:**
  - Serial port baud rate (future use)
  - RBC station address
  - Status display mode
- **Software-Set Parameters:**
  - Discrete I/O interval
  - Word I/O update factor
  - Ignore mismatch mode
  - RS232 port enable/disable
- **Diagnostic Data:**
  - Station status (3 bytes)
  - Master address (1 byte)
  - Ident number (1 byte)
  - Extended diagnostics (9 bytes)
- **Backplane Power:**
  2 Watts (maximum)
- **Module Size:**
  Double-wide
- **Shipping Weight:**
  1.5 lb. (0.68 Kg)

Additional Product Information:

On CTI's Website you will find links to the 2500 Series Std Environmental Specifications and the UL Agency Certificates of Compliance.