2577 Profibus-DP Slave Adapter

Features

- Provides a Profibus-DP slave interface to existing CTI 2500 Series or Simatic® 505 control systems
- No changes required to existing PLC configuration and I/O
- Allows transfer of up to 110 words of data in and data out between Profibus Master and PLC
- Maintains statistics and diagnostic information for Profibus network
- Auto-senses Profibus baud rate
- Integrates CTI 2500 Series and Simatic® 505 systems into S7 designs

Specifications

Communications Ports:
Configuration and Diagnostics port (male DB9)
Profibus-DP port (female DB9)

Configuration Port Parameters:
8 data bits, 1 stop bit, no parity, no handshake, 19.2K baud

Profibus-DP Port:
Data Rate: 9600 - 12Mb/sec (autosensing)
Connector: Female DB9

Data Transfer: User selectable via GSD file
1, 2, 4, 8, 16, 32, 64, or 110 words read/write

PLC Memory Types:
Read: V, WX, C*, X*
Write: V, C*

Diagnostic LEDs: Module Status, Transmit & Receive on each port

Module Size: Single-wide

Backplane Power Consumption: 6.0 Watts

Environmental:
Operating Temperature: 0º to 60ºC (32º to 140ºF)
Storage Temperature: -40º to 85ºC (-40º to 185ºF)
Humidity: 5% to 95% (non-condensing)

Agency Approvals:
UL, UL for Canada
FM (Class 1, Div 2), CE

Profibus Certification: yes

Shipping Weight: 2 lbs.

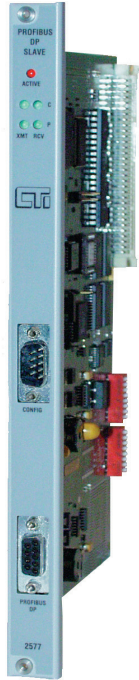*Maximum of 16 words read/write supported for C-type memory and X-type memory; 16 C bits/ word.

Description

The 2577 Profibus-DP Slave Adapter is a communications adapter for CTI 2500 Series or Simatic® 505 controllers. The 2577 provides a window into an existing PLC application with the continuous transfer of user assigned V, WX, X, or C memory blocks. Up to 110 words of contiguous data may be read and 110 contiguous words may be written into the PLC.

No change is required in the existing control system hardware configuration. With the 2577, the CTI 2500 Series or Simatic® 505 PLC and all special function modules may be retained. There is no requirement to rewrite the ladder logic program to integrate the PLC with current Profibus programming solutions.

A simple GSD file is supplied that allows the PLC containing the 2577 to be added to Profibus programming tools such as COM PROFIBUS and STEP 7.

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PROFIBUS
DP SLAVE
ADAPTER

ACTIVE

C

P

CONFIG

2 RXD
3 TXD

5 GND

CHASSIS GND

(5) BIAS SUPPLY GND

TX/RX- (8)

(3) TX/RX+

BIAS SUPPLY GND +5v (6)

9

5

3

6

1

DP

2577