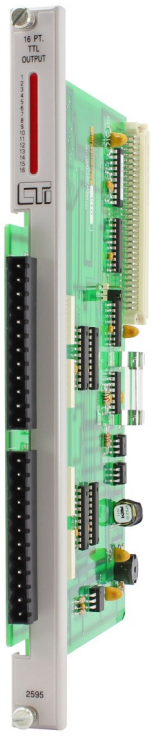
2595 16-point TTL Output Module

Classic

2500 Series® PLC System
Product Bulletin



Specifications

Inputs per module: 16 (2 outputs per common)
Isolation:
500 VDC group-to-group
1500 VDC channel-to-backplane
1500 VDC channel-to-backplane
Output Drive Capabilities:
High (VOH) (minimum) = 4.5 V @ 500 µA
Low (VOL) (maximum) = 0.4 V @ 30 mA
Rise/Fall Time = 1 µSec
Outputs are true "low" when energized
Sink Current: (maximum per output) 50 mA
PLC Reporting: X or WX (jumper selectable)
Wire gauge: 14-22 AWG removable connectors
Backplane power: 2 Watts max
Module size: Single-wide
Blown fuse indication: Front panel LED
Shipping weight: 1 lb. (0.45 Kg)

Description

The 2595 16-Point TTL Output Module provides sixteen TTL or CMOS compatible outputs to the CTI 2500 SeriesTM or Simatic® 505 I/O base. The module is designed to respond to standard output instructions. With the 2595, the PLC is capable of providing signals to a variety of field devices including lab instrumentation, BCD message displays, video terminals, board level devices, and low current annunciator panels. With an external pull-up resistor, the 2595 can interface to 24 VDC control systems and other instrumentation. The module can drive up to 16 CMOS or TTL loads per output.

Features

- CTI 2500 SeriesTM or Simatic® 505 Series I/O base format
- 500V channel-to-channel isolation
- 1500 VDC channel-to-PLC backplane isolation
- Drive BCD message displays and video terminals
- High speed TTL interface to board level devices
- Interface to 5 to 24 VDC control systems and instrumentation
- Operates as a discrete or 16 bit word output

Additional Product Information:

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

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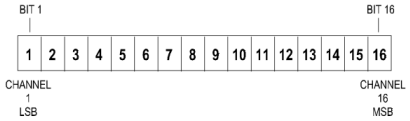
2595 16-Point *TTL Output Modules*

Word and Discrete Mode

The 2595 may operate as a 16 Bit Word Output Module or as a 16 Discrete Output Module. By setting JP1 in Word Mode and using Workshop to configure I/O the 2585 will look like a standard WX input module; for example WY1-WY8.

NOTE: The 2595 will be mapped as the first WY address (i.e. WY1). In Word Mode Channel 1 corresponds to bit 16 or LSB and Channel 16 corresponds to Bit 1 or MSB.



I/O MODULE DEFINITION FOR CHANNEL 1 BASE 00

SLOT	I/O ADDRESS	NUMBER OF BIT AND WORD I/O X	Y	WX	WY	SPECIAL FUNCTION
01	0001	00	00	00	08	NO
02	0000	00	00	00	00	NO
15	0000	00	00	00	00	NO
16	0000	00	00	00	00	NO

Figure 1 I/O Word Mode Configuration Chart

In the example Figure 2, the 16-point TTL output module is inserted in slot 1 in I/O base 0 and configured as a DISCRETE Output module using JP1. In the example below data appears as 16 "Y" locations starting at "Y1". For your particular module, look in the chart for the number corresponding to the slot occupied by the module. If bit locations appear on this line, then the module is registered in the PLC memory and the module is ready for operation.

I/O MODULE DEFINITION FOR CHANNEL 1 BASE 00

SLOT	I/O ADDRESS	NUMBER OF BIT AND WORD I/O X	Y	WX	WY	SPECIAL FUNCTION
01	0001	00	16	00	00	NO
02	0000	00	00	00	00	NO
15	0000	00	00	00	00	NO
16	0000	00	00	00	00	NO

Figure 2 I/O Configuration Chart

Note:
If the address line is blank or erroneous, recheck the module to ensure that it is firmly seated in the slots. Generate the PLC I/O configuration chart again. If the address line is still incorrect, contact your local distributor or CTI at 1-800-537-8398 for further assistance.

Changing Operating Modes

Any time the operating mode of the 2595 is changed with JP1, the module must be configured in the PLC. Failure to do so may cause unpredictable operation due to the fact that the PLC uses different methods of addressing discrete modules from word modules.

2595 16-Point TTL Output Modules

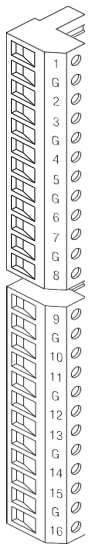
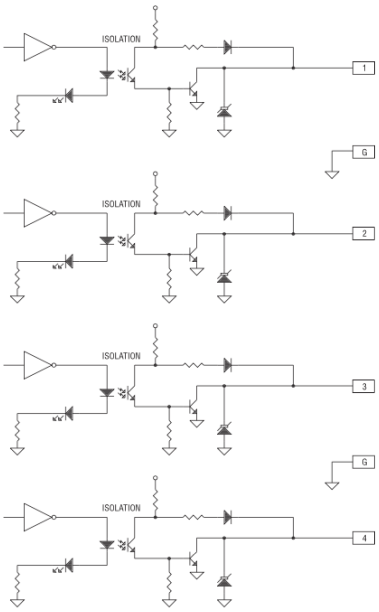
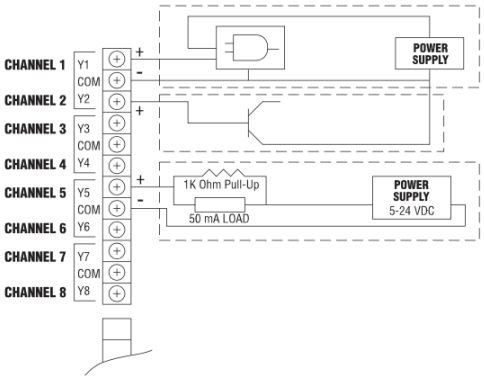


Figure 3 2595 Wiring Connector Diagram



Typical Circuit Group

NOTE: All channels are common to the G terminals.



Typical TTL Output Wiring

Figure 4. 2585 Typical Application Diagram

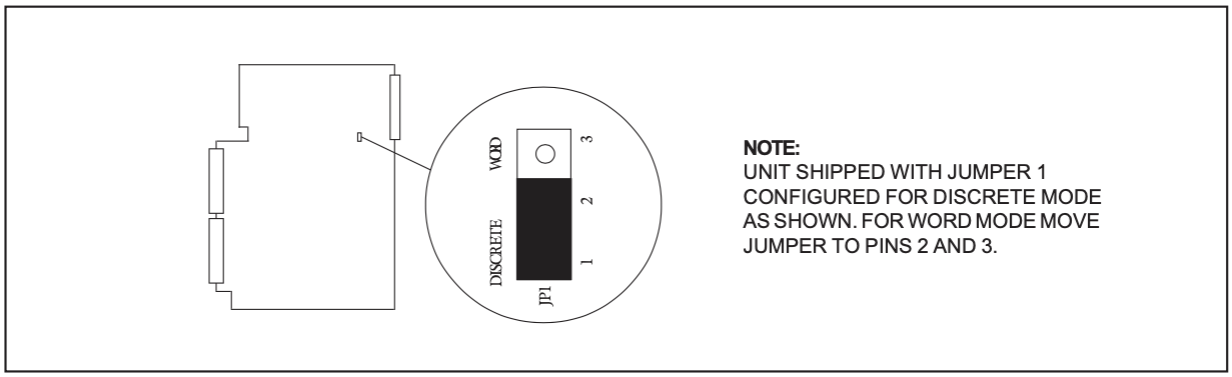


Figure 5. JP 1 Location and Configuration Selection of Y or WY

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