

32 Pt Mode: 8 Common Configuration

The module can also be configured so that eight channels share a common user power. The same jumpers mentioned above, J2, J4, J5, and J6, are used for this selection.

In this example, if jumper J2 was placed in the 8 Common position, then Channels 1-8 would share the same common user power and only one supply voltage could be used on these eight channels. With this selection each group of eight channels is isolated from the other, allowing up to four different supply voltages to be accommodated per module.

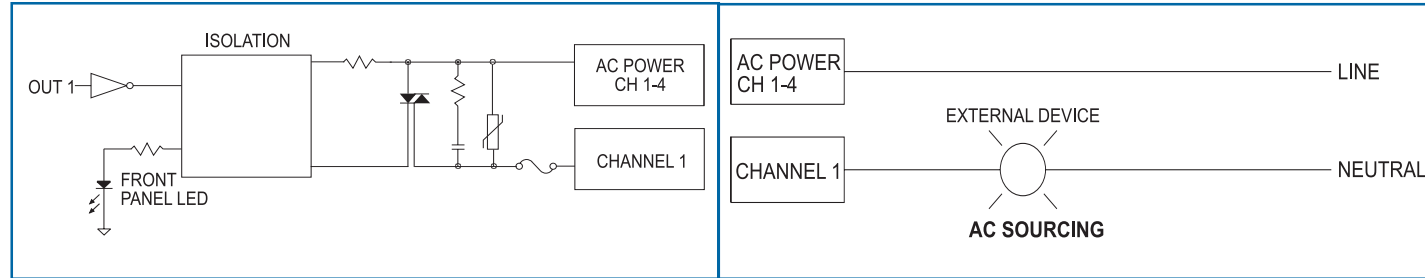


Figure 4. Typical Internal Circuit

Figure 5. Typical External Wiring Diagram

16 Point Mode: Move jumper in "Login" box to location JP2 to choose 16pt mode. Ensure the Isolation jumpers J2,4,5, & 6 are in '8 Common' positions to correspond to the Siemens® counterpart 16 point modules (4 inputs/common). Also, note that many of the printed channels (CH 1-CH 32) on the PC board are no longer valid, nor are the front panel connector labels. (You may find it helpful to utilize the appropriate 16 pt. connector labels shipped with the product.) If 16 Point is enabled, the following table's 16pt. row is the new correlation of PC board printing and front panel label's LED area printing. For example, in 16 Point Login Configuration, the board marking for channel 10 (CH 10) would be the input channel 6. Likewise, the PC board marking for CH 28 would correlate to input channel 16.

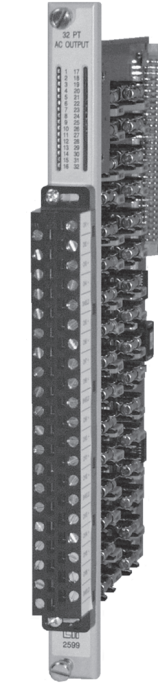
8 Point Mode: Move jumper in "Login" box to location JP3 to choose 8pt mode. Ensure the Isolation jumpers J2,4,5, & 6 are in '8 Common' positions to correspond to the Siemens® counterpart 8 point modules (2 inputs/common). Also, note that many of the printed channels (CH 1-CH 32) on the PC board are no longer valid, nor are the front panel connector labels. (You may find it helpful to utilize the appropriate 8 pt. connector labels shipped with the product.) If 8 Point is enabled, the following table's 8pt. row is the new correlation of PC board printing and front panel label's LED area printing. For example, in 8 Point Login Configuration, the board marking for channel 10 (CH 10) would be the input channel 4. Likewise, the PC board marking for CH 25 would correlate to input channel 7.

Login Mode

	Channel/Fuse Labeling																															
32 pt:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
16 pt:	1	2	3	4	-	-	-	-	5	6	7	8	-	-	-	-	9	10	11	12	-	-	-	-	13	14	15	16	-	-	-	-
8 pt:	1	2	-	-	-	-	-	3	4	-	-	-	-	-	-	5	6	-	-	-	-	-	-	-	7	8	-	-	-	-	-	

Note: For CTI Limited Product Warranty and RMA procedures please go to www.controltechnology.com/support.htm.

2599 8/16/32-Point AC Discrete Output Module



Specifications

Outputs per Module: 8, 16, or 32

Isolation: 2100 VAC channel-to-backplane
3000 VAC group-to-group

Output Voltage: 11 VAC to 240 VAC

Maximum Output Current:

- 2A per point
- 8A per group
- 32A per module (32pt login)

for Class 1 Div 2 locations:
2A per point @ 50C
1.5A per point @ 60C

Maximum Surge Current: 3 Amps for 15 Sec

"ON" State Voltage Drop: 1.0 V @ 1.0 Amp

"OFF" State Leakage Current: 1 mA @ 120 VAC

Turn On Time: 1 AC cycle

Turn Off Time: 1 AC cycle

Fuses: 32, 2.5 amp, 250V,
Type Littlefuse #21602.5,
Bussman GDA-2.5, (Field replaceable)

Connector: Removable

Wire Gauge: 14 - 22 AWG

Backplane Power: 1.75 Watts max.

Module Size: Single-wide

Operating Temperature: 0° to 60°C
(32° to 140°F)

Storage Temperature: -40° to 85°C
(-40° to 185°F)

Relative Humidity: 5% to 95%
(non-condensing)

Agency Approvals Pending:
UL, UL-Canada, Class 1, Div 2, CE

Shipping Weight: 1.5 lb. (0.68 Kg)

Description

The 2599 8/16/32-Point AC Discrete Output Module provides up to thirty-two outputs from the CTI 2500 Series or Simatic® 505 I/O base. The module utilizes solid-state output circuits to switch on or off external devices such as pilot lamps, motor starters, or solenoids. The 2599 is designed to switch externally supplied 11 to 240 VAC. The internal logic signals are isolated from the external outputs to 2100 VDC.

Features

- 8, 16, or 32 AC output points
- Replaces Siemens® 505-4608, -4616, -4632, -4808, -4816, -4832
- 3000 VDC group-to-group isolation
- 2100 VDC channel-to-backplane isolation
- Isolation in groups of 4 or 8 (selectable with 32 pt login configuration)
- Wide 11-240 VAC output range
- 2.0A per output (32 Amps total module output)
- Individually fused outputs
- Sourcing outputs
- Single-wide module

2500 Series PLC System Product Bulletin



Control Technology Inc.

5734 Middlebrook Pike, Knoxville, TN 37921-5962
Phone: 865/584-0440 Fax: 865/584-5720 www.controltechnology.com

