

**24 VDC Output Positive Logic, 2 Amp - 16 Circuits
IC655MDL555**

This module provides 16 circuits for controlling user output loads. The output switching capacity of this module is two amps. 16 LEDs on the front of the module provide a dual function. First, they provide a visual indication of the status of each output circuit, with each LED reflecting the ON or OFF state of the corresponding circuit. Second, when commanded through programming, they indicate the starting I/O address for the module. Connections to each circuit are made to the removable terminal block on the front of the module. The output circuits are divided into four groups internally. On the terminal block, the groups are combined and are labeled A and B, with 8 circuits in each group. The terminals in each group are labeled 1 to 8. Each group of eight has a single common connection, labeled C. The user must supply a 24 VDC source of power, which provides power for both the load and the output circuit. Both groups can be powered from a single power source or each group can be powered from a separate source.

Table 19. Specifications for 24 VDC Output, Positive Logic, 2 Amp - 16 Circuits

Output Circuit Type	P-MOS FET, open drain
Number of Circuits	16
Internal Circuit Grouping	Four groups, four circuits per group. (One common for each two groups)
Operating Voltage	5.0 to 26.4 VDC
Peak Voltage	40.0 VDC
Maximum Operating Current	2 amps; 10 amps/common; 20 amps/module
Maximum Leakage Current	0.1 mA at 40 VDC
ON Voltage Drop	0.5 VDC at 2 amps; 0.2 VDC at 1 amp
Smallest Recommended Load	0.2 mA at 5 VDC
Maximum Inrush current	6 amps for 100 ms; 12 amps for 10 ms
OFF to ON Response	0.1 ms
ON to OFF Response	0.1 ms
Status Indicator Location	Logic side
Fuses Rating and Type, Internal	8 amps (1 for each group of four circuits), fast blow. <i>Total current should not exceed 5 amps per group.</i>
Internal Power Consumption, (5 VDC)	Total; 150 mA (typ), 170 mA (max) Per On Point; 9 mA
External Power Supply Requirements	Voltage: 24 VDC, 10% Current: 50 mA maximum at 26.4 VDC

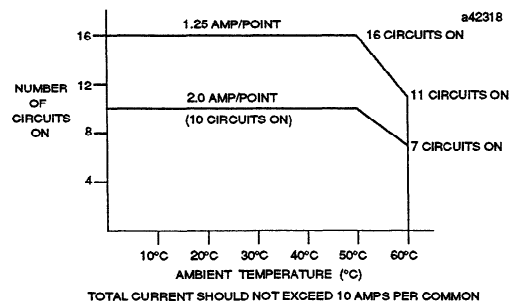


Figure 31. Output Points vs. Temperature for IC655MDL555

GFK-0123

Wiring Information - IC655MDL555

The following figure provides the information required for connecting user supplied loads and power source to this module.

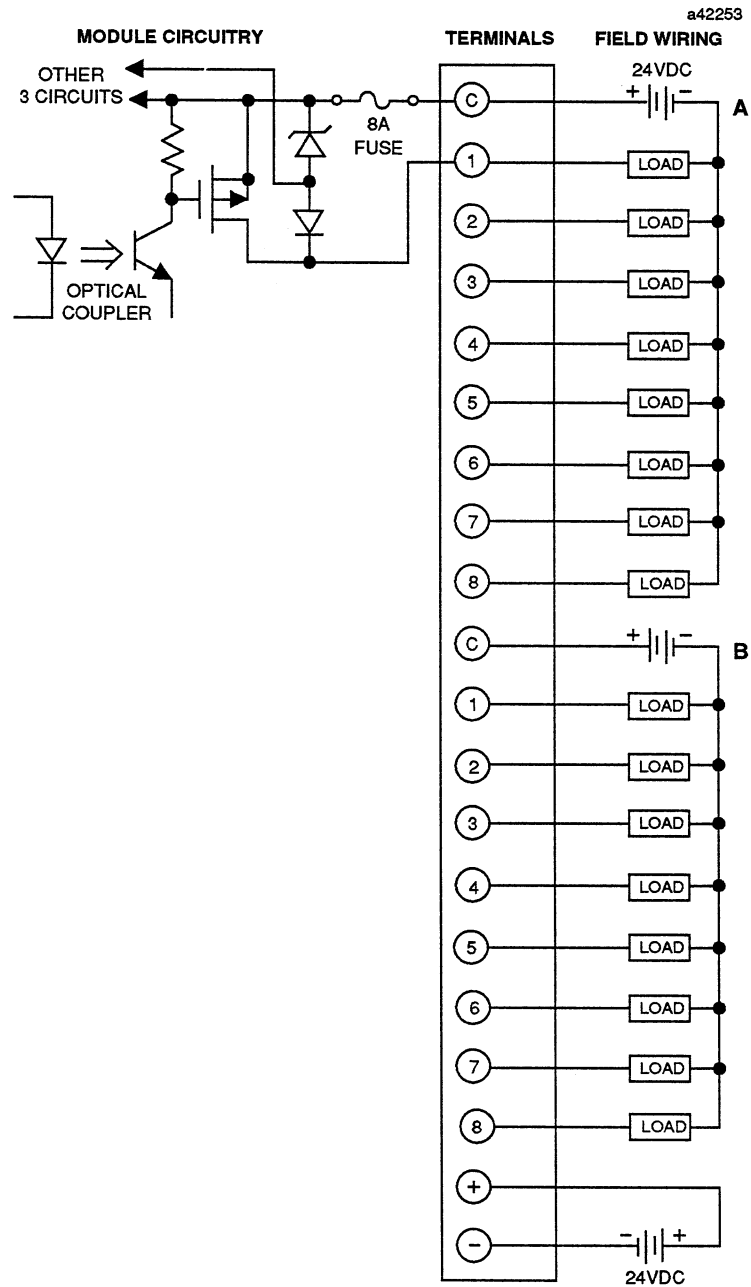


Figure 32. Field Wiring and Typical Circuit for IC655MDL555