

**24 V dc Sink Output (16 Circuits)
With Removable Terminal Board
IC610MDL157**

This module provides 16 circuits, each designed to be capable of controlling user supplied discrete (ON/OFF) loads. There are 16 LEDs on the faceplate, which are status indicators to reflect the ON or OFF status of each of the circuits. Typical loads include relay coils, motor starters, solenoid valves, and indicator lights. The 16 circuits are referenced to a single DC power source that must be supplied by the user. Output switching capacity of this module is 0.5 A at 24 V dc. The output switching circuitry is arranged in 2 groups with 8 circuits in each group. Each group is protected by a 3 amp fuse.

The 16 circuits are connected to user loads through a removable socket type terminal board. Figure 6.25 provides wiring information for this module. Following are specifications for each of the 16 circuits:

Output Points	16
Operating Voltage	5-24 V dc
Peak Voltage	40 V dc
ON Voltage Drop, Typical	1.0 V dc @ 0.5 amp
ON Voltage Drop, Maximum	2.0 V dc @ 0.5 amp
Maximum Current*	0.5 amp
Maximum Leakage Current	0.11 mA @ 40 V dc
Maximum Inrush	3 amp for 20 ms 1 amp for 100 ms
OFF to ON Response	0.1 ms
ON to OFF Response	0.1 ms
Fuse (Internal)	3 amp (In Output Common Line, one for each group of 8)
Internal Power Consumption	9 V dc: 3 mA + 2.3 mA for each ON circuit 24 V dc: 6mA for each ON circuit
Units of Load	4 units @ 9 V dc 10 units @ 24 V dc
Weight	5.6 oz (160 g)

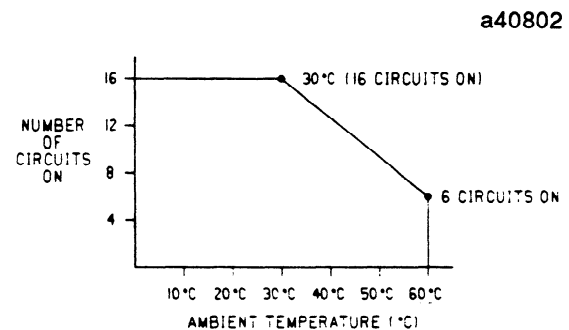
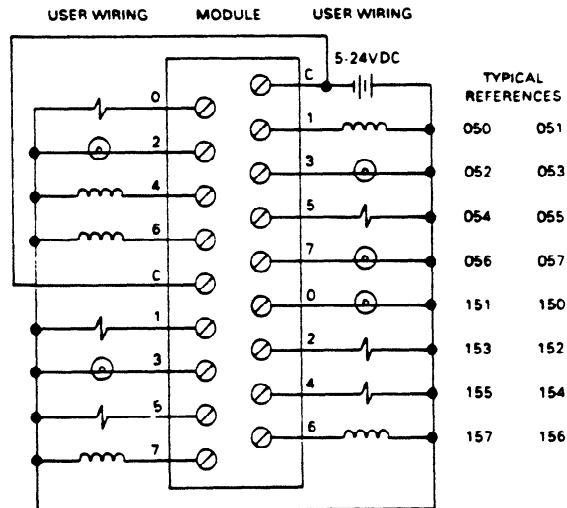


Figure 6-24. I/O Points vs Temperature Chart

* Maximum load current is dependent upon ambient temperature as shown in figure 6.24.

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The following rules should be used when applying this module.

1. Each group of 8 outputs is limited to 2A total current.
2. The maximum current for each array of 4 outputs (0-3), (4-7) is:

1 point on - .7 amps,
3 points on - .4 amps each,

2 points on - .5 amps each
4 points on - .35 amps each

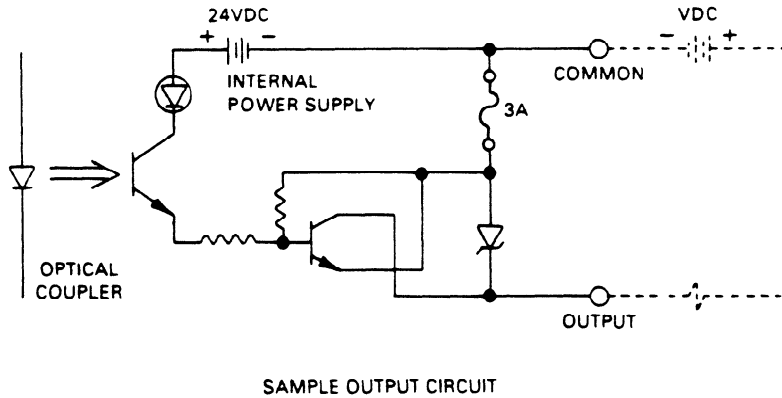


Figure 6-25. Wiring for 16 Circuit 24 V dc Sink Outputs