

CAMAC POWER SUPPLY MONITOR MODULE

ES-7123

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PURPOSE:

Many of the CAMAC power supplies at Fermilab do not provide adequate monitoring of the output voltages. To correct this situation, a CAMAC module has been designed which accurately monitors the +6 and +24 power supply voltages in the CAMAC crate. The module provides a daisy chain alarm signal and status lights which indicate when any of the power supply voltages are outside a pre-established voltage range. Hence, insipient CAMAC power supply failure or overloading can be discovered and corrected before a significant amount of data is affected. The module also provides convenient front panel test points to directly monitor the CAMAC dataway D.C. power buses with a digital voltmeter.

GENERAL OPERATION:

The single-width CAMAC monitor module obtains its power from the crate which it is monitoring. A general understanding of how the monitor module operates can be obtained from Figure 1. The input +24 and +6 voltage sources are used to generate a +5V nominal power source and a +2.5V nominal reference for use in the module's monitor and internal test circuits. Similarly, the input -24 and -6 volt sources are used to develop a -5V