

CAMAC Equipment

CAMAC, Computer Automated Measurement And Control, is an IEEE-standard (583), modular, high-performance, realtime data acquisition and control system concept.

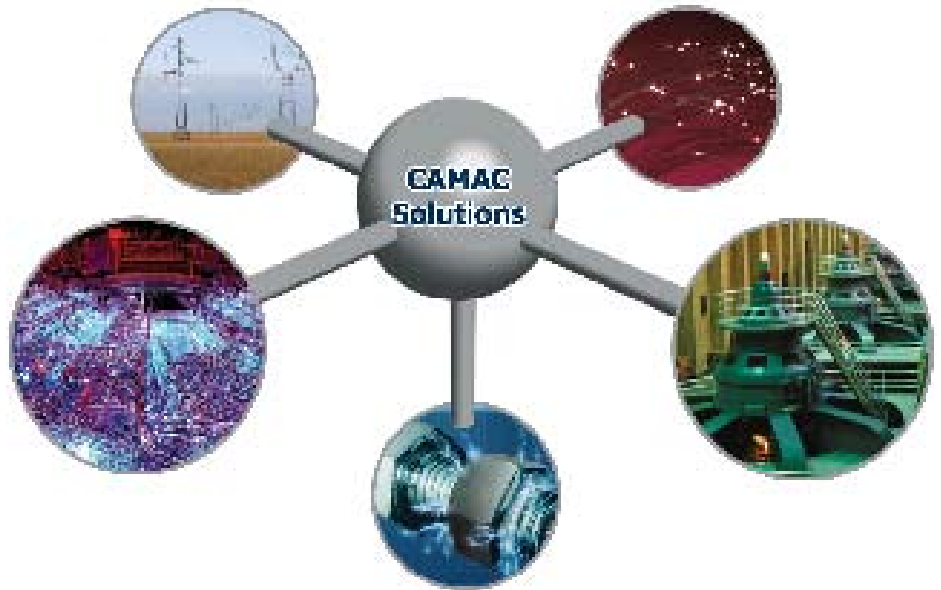
Since 1969, CAMAC has been used in many thousands of scientific, industrial, aerospace, and defense test systems around the world.

APPLICATIONS

System Watchdog timer to detect host or remote computer failure of the failure of a node in a connected network

Power monitor to detect power supply failure in remote CAMAC crates

3792 Watchdog Timer/Power Monitor



The Model 3792 Watchdog Timer is a single-width CAMAC module providing a safety interlock input and a mechanism that determines network or computer failure in complex control or data acquisition systems.

FEATURES

- Provides Dataway activity monitor and system Watchdog
- Timeout activates selectable LAM and Form C relay contacts
- Strap-selectable Dataway Inhibit
- Strap-selectable Watchdog timeout period
- Monitors all voltages in CAMAC crate
- Strap-selectable audible alarm with front-panel reset-and-test switch



GENERAL DESCRIPTION

The Model 3792 Watchdog Timer is a single-width CAMAC module providing a safety interlock input and a mechanism that determines network or computer failure in complex control or data acquisition systems. Once configured for a specific application and enabled by a controlling processor, the Watchdog's warning features remain armed as long as there is Dataway traffic within the selected timeout period.

When the Watchdog is used with modules that can be disabled by Dataway Inhibit(I), a known, well-defined shutdown state is guaranteed if the system fails. Optionally, the relay outputs can be included in safety interlock chains programmable controller inputs, or remote interrupts for automatic shutdown logic; both timeout and power monitor outputs may be used in this way. Both NC and NO contacts are available.

The assertion of LAM from the Watchdog automatically signals a remote or host processor of pending failure in a distributed intelligence application. The timeout LAM will be asserted after one timeout period has elapsed. It is not necessary to have LAMs enabled to use the Watchdog's relay outputs, they are always available. The activity monitor may be strap-selected to be Dataway BUSY or XEQ[(N F(25) A(0))]. The nominal strap-selectable timeout period ranges from 0.01 seconds to 10.0 seconds in four decade increments.

The power monitor will assert a LAM (if enabled) and de-energize a relay if the crate power supply exceeds a 0.5 volt window on the plus and minus 6 volt outputs, a 2.5 volt window on the plus and minus 24 volt outputs, or a 1.5 volt window on the plus and minus 12 volt outputs. The 12 volt power monitor may be disabled if the crate power supply does not provide this voltage.

The 3792 includes a strap-selectable audible alarm which can be activated by timeout, a power failure, or both. The front-panel provides a manual reset and a momentary test of the audible alarm.

A status register, which can be read from the Dataway, indicates the state of the timeout and Dataway Inhibit strap settings, whether or not a failure has occurred on any of the power outputs, and the state of the LAM bits.

POWER REQUIREMENTS

Volts — 295 mA

Volts — 13 mA

-6 volts — 1 mA

-24 volts — 3 mA

WEIGHT:

.45 kg. (1 lb.)



ACCESSORIES

Model 5950-Z1A Mating Connector
Model 1850-A1D Rack Termination Panel

ORDERING INFORMATION

MODEL	DESCRIPTION
3792-A2A	Timer/Power Monitor with Audible Alarm (replaces 3792-Z1A)

Updated June 6th, 2005

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