

## CAMAC Equipment

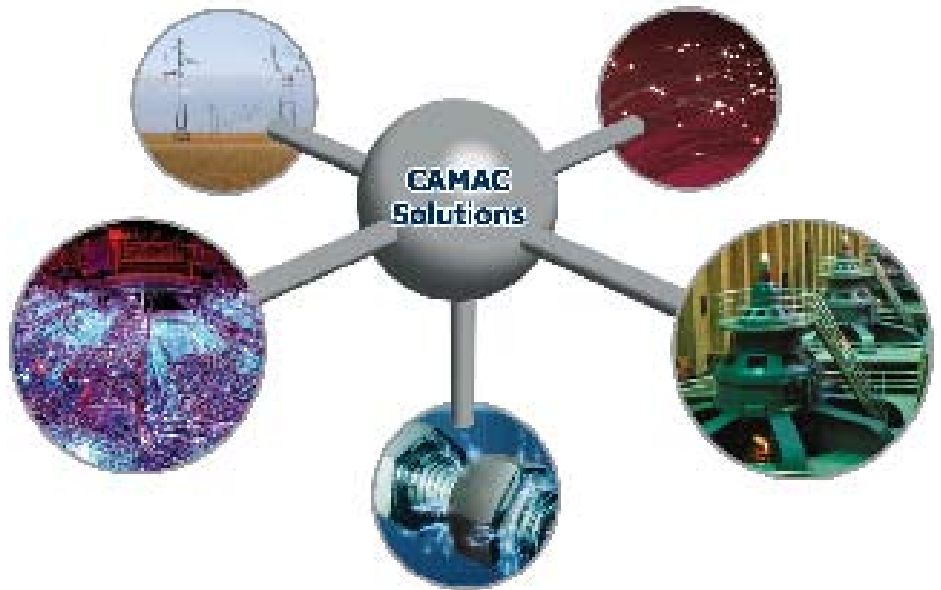
CAMAC, Computer Automated Measurement And Control, is an IEEE-standard (583), modular, high-performance, realtime data acquisition and control system concept.

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

### APPLICATIONS

Jet and rocket engine testing  
Data acquisition systems with per-channel calibration requirements

## 3568 32-channel Calibration Relay



The Model 3568 is a double-width CAMAC module containing 32 two-pole, double-throw relays for calibrating individual analog channels in data acquisition systems.

### FEATURES

- 32 channels
- Programmable on a per-channel basis

## GENERAL DESCRIPTION

The Model 3568 is a double-width CAMAC module containing 32 two-pole, double-throw relays for calibrating individual analog channels in data acquisition systems. Analog calibration requirements for a data acquisition system generally fall into one of the following categories:

1. The initial calibration and subsequent field calibration of the analog modules are sufficient to maintain the desired accuracy of the measurements.
2. Calibration can be accomplished by applying precision voltage levels to several channels of a multiplexed analog-to-digital subsystem. Often these channels are set to +80% full scale, zero volts, and -80% full scale.
3. Calibration of the data acquisition system must be performed on a channel-by-channel basis. This may be required to meet customer certification specifications or to achieve the desired accuracy. For systems that contain active elements (amplifiers, filters, etc.) ahead of the multiplexer, the calibration of these elements can only be accomplished by manual calibration or per-channel switching of a calibration source.

The 3568 module is intended for applications that fall into the third category. Wiring from the transducers is brought into the 3568 via two AMP, 36-contact high-density, rectangular connectors mounted on the front panel. Two additional 36-contact AMP connectors provide the output path to modules such as the 3516 32-channel ADC or to signal conditioning "front end". Two front-panel LEMO connectors allow the voltage source to be "passed through" several 3568s. A computer-programmable source, such as the EDC Model 501J Voltage Calibrator, provides sufficient accuracy for most applications.

*Note that this module is intended for calibration of voltage-input data acquisition channels (monitoring thermocouples, etc.) and cannot be used between RTDs, strain gages, etc. and their associated bridge modules.*

## OPERATIONS

The balanced signal path for each channel is normally "straight through," input to output. Two F(16) commands allow users to select, on a channel-by-channel basis, output paths that are connected to the calibration source. Generally, channels with the same gain will be grouped for calibration by this selection. All channels can be cleared (returned to "straight through") by an F(9)•A(0) command or set (connected to the calibration source) by an F(25)•A(0) command. A LED on the front panel flashes whenever the module is addressed.

## POWER REQUIREMENTS

+6 volts — 975 mA



**ACCESSORIES**

- Model 3516 32-channel, Scanning A/D Converter
- Model 5855-A30J Cable Assembly (two required)
- Model 5944-Z1A Mating Connector (two connectors required)
- Model 1854-A2A Termination Panel with two Model 5855-B30J Cables

**ORDERING INFORMATION**

MODEL	DESCRIPTION
3568-V2A	32-channel Calibration Relay

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