

CAMAC Equipment

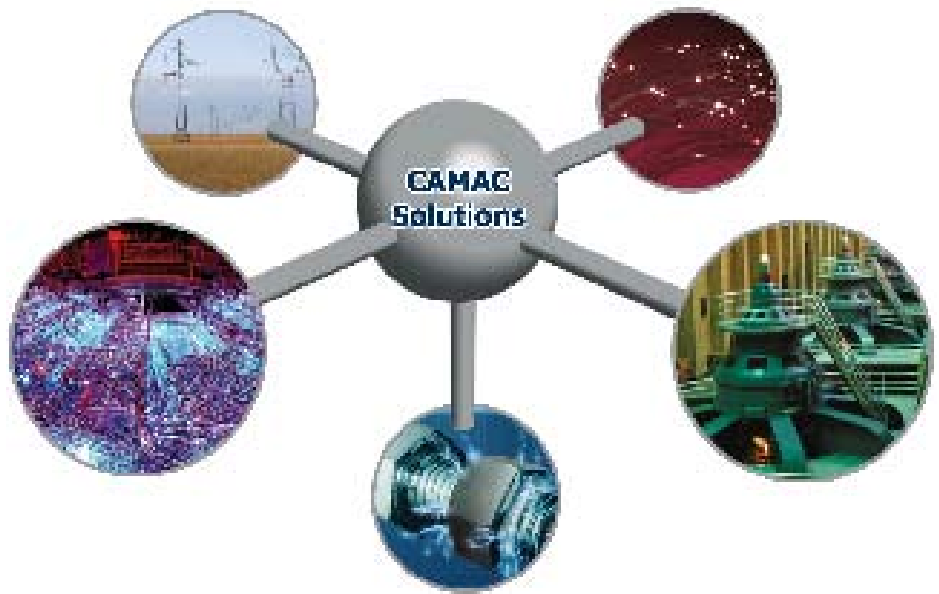
CAMAC, Computer Automated Measurement And Control, is an IEEE-standard (583), modular, high-performance, realtime data acquisition and control system concept.

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
General-purpose data acquisition

3565 8-channel RTD Signal Conditioner



The Model 3565 is a single-width CAMAC module providing eight channels of RTD (Resistance Temperature Detector) bridge completion and input filtering as well as input multiplexing.

FEATURES

- 8 channels
- Bridge measurements with two-, three-, or four-wire 100 ohm RTDs
- Also accommodates current-excited four-wire RTDs
- On-board excitation source
- On-board calibration resistor
- Two-pole, lowpass filter per channel
- Multiplexer for use with 3518 ADC



GENERAL DESCRIPTION

The Model 3565 is a single-width CAMAC module providing eight channels of RTD (Resistance Temperature Detector) bridge completion and input filtering as well as input multiplexing. It is used with the Model 3518 Scanning A/D Converter Host module.

The 3565 can accommodate RTD transducers of the two-, three-, or four-wire type. Each channel of this input module contains the remaining three legs of the bridge for 100 ohm RTDs. If RTDs other than 100 ohms are desired, please contact KineticSystems Corporation for additional bridge resistor options. In addition, each channel can be strap-selected for current excitation of four-wire RTDs with resistance values to 1000 ohms. An excitation source adjustment is provided for each channel. An on-board calibration resistor may be switched in on a channel-by-channel basis by means of a calibration relay register. The calibration relay register can be written and read via the Dataway.

Wiring from the transducers is brought into the 3565 via AMP, 36-contact, high-density, rectangular connectors mounted to the front panel. These connectors mate directly with the Model 5944-Z1A mating connectors and with the Model 5855-Series of cable assemblies. The multiplexer output and control signals are bussed between the front panel of the 3565, other signal conditioning modules, and the 3518 ADC module via the Model 5840-Series of 10-wire flat ribbon cable assemblies. The front panel also contains a LED which flashes whenever the module is addressed.

FILTERS

The 3565 contains a passive, lowpass filter per channel. These filters provide a nominal 3dB attenuation at 10 hertz with a rolloff of 12 dB per octave above 10 hertz. Contact KineticSystems Corporation for filters with other cutoff frequencies.

CHANNEL SELECTION

If the 3565 Channel Address switch is set to "0," then its first channel corresponds to the first channel of a 3518 scan. The Channel Address switch can be set from 0 to 7 (with the first channel from the 3565 in the appropriate four-channel group on the 3518). The number of scanned channels in the 3565 is also switch-selectable to four or eight. This allows maximum flexibility in configuring a system with multiple input modules connected to a 3518. The First Channel address and the number of scanned channels can be read via the Dataway for verification.

POWER REQUIREMENTS

+6 volts — 670 mA
+24 volts — 45 mA
-24 volts — 20 mA

WEIGHT:

.62 kg. (1 lb. 6 oz.)



ACCESSORIES

Model 3518-Z1A 16-bit Scanning A/D Converter Host
Model 5944-Z1A Mating Connector
Model 1854-A2A Termination Panel with 5855-B30J Cables
Model 5855-A30J Cable Assembly

ORDERING INFORMATION

MODEL	DESCRIPTION
3565-V1A	8-channel RTD Signal Conditioner

Updated May June 6th, 2005

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