



4-Channel Signal Conditioning Module - Voltage Excitation, Programmable Digital Filtering, & Simultaneous Sampling

Features

- 4-Channels per Module
- Simultaneous Sampling Capability
- Programmable Digital Presample Filtering
 - Programmable 120, 90, 60 or 40 tap finite-impulse-response (FIR) filters
 - Approximates 12 pole Butterworth Filter
 - Stop Band Attenuation of 85dB
 - Analog anti-aliasing filter
 - Automatic adaptive filter
- Programmable Voltage Excitation
- Programmable Gain and Offset
- >1,000 Megohms Input Impedance (Power On)
- >2 Megohms Input Impedance (Power Off)
- $\pm 0.25\%$ System Accuracy (Auto Cal Enabled)
- $\pm 0.5\%$ System Accuracy (Auto Cal Disabled)
- $\pm 35\text{VDC}$ Overvoltage Protection
- Windows 95/98/NT/2000 Software Included



Applications

- Flight Test Instrumentation
- Factory Automation & Process Control
- Strain Gages , Load Cells, Pressure Transducers, ...
- Research Measurements and Experiments

Description

The MSCD-104D is a 4-channel plug-in signal conditioning module for use in TTC's MEDAU-2000, MCDAU-2000 and MWDAU-2000 products. The card is intended for applications that require significant signal conditioning flexibility and simultaneous sampling capability. The module provides constant voltage excitation, programmable presample filtering, and user-programmable gain. The FIR filter is phase locked to the channels format sample rate to maintain time correlation between the input signal and the PCM output. The filter can be set for 3, 4, 5, 6, 8 or 10 times oversampling (the filter -3dB point will be automatically set to the format sampling rate divided by the oversampling value). The conditioned analog signal is digitized at up to 16-bit resolution for transmission in the system PCM output format.



CAIS
Compatible



ISO 9001:2000
KEMA CERTIFICATE