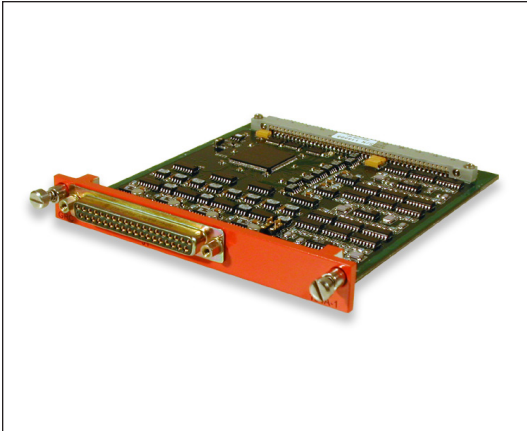


4-Channel Gain Ranging Conditioner w/Voltage or Current Excitation



Applications

- Flight Test Structural and Dynamic Measurements
- Microphone or Acoustic Measurements
- Accelerometers
- Strain Gauge, Load Cells and Pressure Transducers

Features

- 4-Channel Accelerometer Conditioner Card
- Automatic Gain Ranging
 - Dynamically Adjusts Channel Gain
 - Provides Maximum Signal Resolution
 - Fixed, Auto or Down-Only Gain Modes
- Channel Gains: 1, 4, 16, 64, 256 and 1024 Volts/Volt
- Programmable Per-Channel Signal Conditioning
 - AC or DC Coupling
 - 6-pole Presample Filtering (64 frequencies)
- Programmable Constant Voltage Excitation
- Constant Current Excitation
- Simultaneous Sampling
 - Thinning Function
- Compatible with EDAU/CDAU-20XX System
- Compatible with WDAU-20XX operating to 20Mbps
- Windows 95/98/NT/2000 Software Included

Description

The GRC-104A is a 4-channel automatic gain ranging card for use in TTC's EDAU/CDAU-20XX host chassis. The card provides constant voltage excitation and signal conditioning for 4-arm bridge inputs. The card also provides a constant current excitation for accelerometer inputs. Each channel provides calibration, programmable gain and presample filtering with 64 software programmable cutoff frequencies. The conditioned analog signal is digitized at up to 12-bit resolution within the module and along with four bits of gain and status information, is transferred to the overhead section for transmission in the system PCM output format. Additionally, the average of the absolute value of the signal is digitized within the module to 12 bits resolution. The gain and status bits are then appended to this word to provide maximum resolution. The card also provides a "thinning function" that can be used to programmatically reduce the sample rate of the channels when the system is in the "Simultaneous Thinning (Current Sample)" mode.

Revision 05/08/2015

GRC-104A Datasheet

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 Specifications subject to change without notice.

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CAIS
Compatible



Management
System
AS9100C
ISO 9001:2008

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