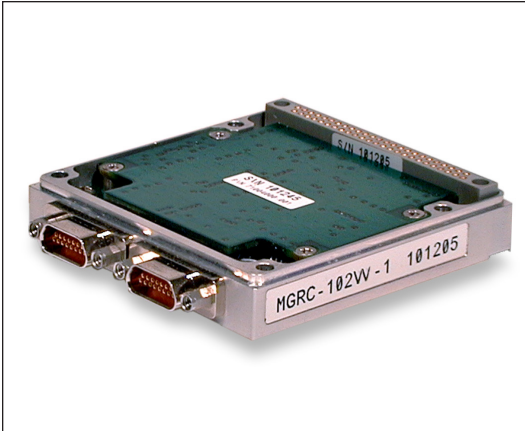


2-Channel Auto Gain Ranging Conditioner Module



Applications

- Flight Test Structural and Dynamic Measurements
- Microphone/Acoustic Measurements
- Strain Gages, Potentiometers, Pressure Transducers, ...

Features

- 2 Channels per Module
- High speed, for use in systems operating up to 1.25 MSPS
- Fixed gain, Auto Gain Range or Down-only Gain Range Modes
 - Dynamic Gain Adjustment
 - Provides Max Signal Resolution
- Simultaneous or Sequential Sampling Capability
- Constant Voltage Excitation
- Programmable Gain
 - 1, 4, 16, 64, 256, and 1024
 - Programmable on per Channel Basis
- Programmable AC/DC Coupling
 - Active Offset Correction in AC Mode
 - AC Common Mode up to $\pm 30V$
- $\pm 0.5\%$ System Accuracy
- Programmable Presample Filtering
 - 6-pole Butterworth Presample Filter
 - 4 Programmable Cut-off Frequencies
- Average of Absolute Value of Waveform
- Zero & Voltage Substitution Cal
- 1,000 Megohms Input Impedance
- $\pm 35VDC$ Overvoltage Protection
- Windows 95/98/NT/2000 Software Included

Description

The MGRC-102W is a 2-channel automatic gain ranging module for use in TTC's MEDAU/MCDAU products. The module provides constant voltage excitation and conditioning for 4-arm bridge inputs, simultaneous sample capability, calibration, programmable gain, and presample filtering with 4 programmable cutoff frequencies. The data is digitized at up to 12-bit resolution and, along with four bits of gain and status information, is transmitted in the system PCM output format. The average of the absolute value of the signal is also available for transmission in the PCM output.

Revision 06/15/2015

MGRC-102W Datasheet

©2015 Teletronics - A Curtiss-Wright Company
Specifications subject to change without notice.

Approved for Public Release 16-S-0459



CAIS
Compatible



Management
System
AS9100C
ISO 9001:2008

Teletronics - A Curtiss-Wright Company
15 Terry Drive, Newtown, PA 18940
phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

www.ttcdas.com