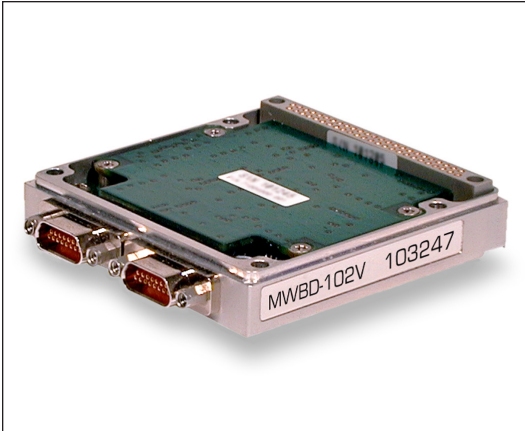


## 2-Channel Wideband Signal Conditioner Module with Prog. Presample Filtering and Constant Voltage Excitation



### Applications

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

### Features

- 2 Channels per Module
- WideBand Signal Conditioner
- 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 MWBD-102V is a 2-channel wideband signal conditioning module for use in TTC's MEDAU/MCDAU products. The module provides constant voltage excitation and conditioning for 4-arm bridge inputs, calibration, programmable gain, and presample filtering with 4 programmable cutoff frequencies. The data is digitized at up to 12-bit resolution for transmission in the system PCM output format.

Revision 05/13/2015

### MWBD-102V Datasheet

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

Approved for Public Release 16-S-1014



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](http://www.ttcdas.com)