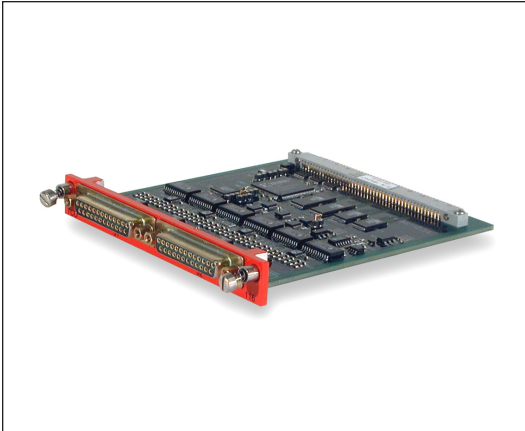


## 16-Channel Thermocouple Conditioner w/Reference Junction Compensation



### Applications

- Flight Test Instrumentation
- Factory Automation and Process Control
- Engine Testing and Aerodynamics Testing

### Features

- 16-Channels per Card
- True Real-time Linearization
- Compatible with Types J, K, E & T
  - Programmable on Per-Channel Basis
  - Mixed Types in the Same Card
- Programmable Measurement Range
  - Full ANSI Range (coarse) or
  - ANSI Range / 2 (fine)
- Programmable Sliding Fine Range (Range Min/Max)
- Programmable Open TC Detection
  - For Non-grounded Thermocouples
- $\pm 0.3\%$  System Accuracy
- $\pm 35\text{VDC}$  Overvoltage Protection
- Compatible with WDAU-20XX operating to 20Mbps
- Windows 95/98/NT/2000 Software Included

### Description

The TCD-116 is an 16-channel plug-in signal conditioning card for use in TTC's EDAU-20XX and CDAU-20XX products. The card is intended for applications that require high performance thermocouple signal conditioning, true real-time linearization and compatibility with ANSI thermocouple types J, K, E and T, all within a single card. Each card is provided with two 8-channel RJC-800 or RJC-108 Reference Junction Compensator units. Thermocouple data is digitized to 12-bit resolution for transmission in the system PCM output format.

Revision 03/13/2009

### TCD-116 Datasheet

©2009 Teletronics Technology Corporation  
Specifications subject to change without notice.



Teletronics Technology Corporation  
15 Terry Drive, Newtown, PA 18940  
phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

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