



MC170-L Portable Signal Conditioning System



- Portable Signal Conditioning System
- Operates on +12 Vdc Vehicle Power
- Uses Standard MC170 Signal Conditioning Modules
- Companion A/D Converter for Laptop PC
- *Softwire* Data Acquisition Development Package for Visual Basic 6.0
- Free Data Acquisition Application Software

The MC170-L is a cost-effective module case for the MC170 family of signal conditioning modules that allows portable operation from +12 or +24 Vdc power sources. Available in 8 or 16-slot versions, the MC170-L is ideal for use in vehicle testing, flight testing or any portable data acquisition application.

A companion 16-bit A/D converter, model PCM862, is available for laptop computers and connects to the MC170-L with an adapter cable. *Softwire* software is also available to make the MC170-L a complete portable data acquisition package.

The MC170-L accepts any mix or combination of the MC170 family of signal conditioning plug-in modules. These modules are available to condition sensors such as strain gages, LVDTs, variable reluctance pressure sensors, frequency signals and DC volts. Sensor inputs are via 9-pin D connectors with a special latching scheme to withstand shock and vibration. The output of the signal conditioning modules is a standard single-ended +/-10 Vdc, ready to be fed into any data acquisition system via the 25-pin D analog output connection.

The PCM862 and *Softwire* allow the signals from the MC170-L to be acquired at sample rates up to 220 KHz with 16 bit resolution. The extensive library of *Softwire* math functions allows collection and real-time analysis of incoming data.

Softwire provides a graphical programming environment within Visual Basic to quickly and easily create a graphical user that interface includes digital panel meters, real-time charts and graphs, alarm settings and annunciation displays.

Using the MC170-L, the PCM862 and *Softwire*, you can quickly create a portable data acquisition system that is precisely tailored to your application and easy for others to use.

The MC170-L is Ideal for:

- **Vehicle Testing**
- **Flight Testing**
- **Engine Test Stands**