



SCS-816, SCS-817

Butterworth and Bessel 8-Channel Amplifier and Low-Pass Filter Modules for the SCS-800 Signal Conditioning System

Features

- 8 amplifiers/filters per module
- 8-pole Butterworth (SCS-816) or Bessel (SCS-817)
- All module parameters are software selectable
- Corner frequencies from 0.5 Hz to 50 kHz Butterworth
- Corner frequencies from 0.5 Hz to 40 kHz Bessel
- Independently adjustable cutoff frequency for each channel
- Amplifier gains of 1 to 1000 per channel
- AC/DC coupling
- Active input shield drive for each channel
- Proprietary DC transformer differential output drive
- Bi-polar (0 to 5volt) to Uni-polar ± 2.5 volt offset
- A/D sample clock output for synchronization
- Four independent tracking filter input clocks
- Automatic DC offset compensation $< 2\text{mV}$ max.
- Graphical application software SystemView 800™ included

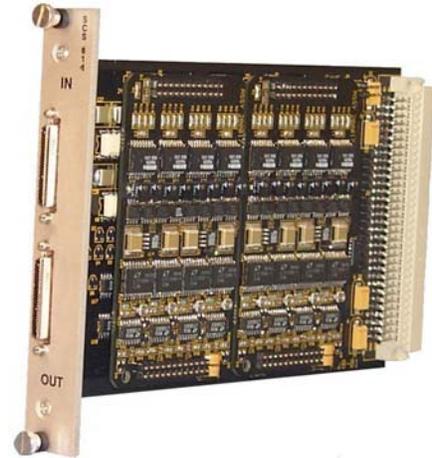
The SCS-816 and SCS-817 series of modules provide 8 programmable channels of low-pass filtering and high-quality instrumentation amplifiers for front-end signal conditioning of low level signals.

Each filter channel is tunable to any corner frequency, under software control, for the entire bandwidth of 0.5Hz to 50kHz for Butterworth and 0.5Hz to 40kHz for Bessel. Coupling may be either AC or DC, and is software selectable for the entire module. Alternatively, the corner frequency of each filter can be controlled for tracking applications with a selection of one of 4 external clocks.

High-quality instrumentation amplifiers on each channel provide software-selectable gain as well as differential inputs with 90 dB common mode rejection. Channels are independently programmable for gain settings of 1, 2, 5, 10, 20, 50, 100, 200, 500 or 1000.

Uni-polar to Bi-polar offset extends the range of the A/D converter by shifting 0 to 5 volt signals to be bi-polar ± 2.5 volt output. This output can then be amplified to provide full-scale A/D input signals.

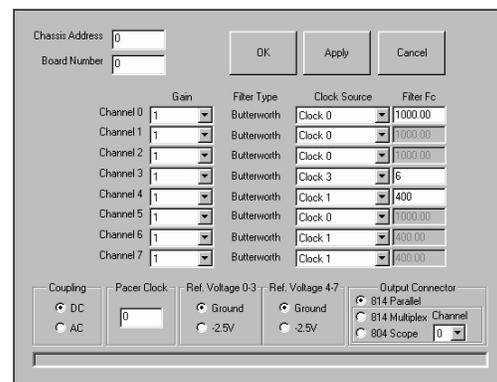
DC Offset. The module features automatic DC offset compensation provides a total DC offset (RTI) of 2 mV.



Support Software

The SCS-800 comes with the **SystemView 800™** graphical control menu-driven software. SystemView 800 software provides simple menu-selection using point and click options to configure any of the SCS-800 modules.

• SystemView 800 for Windows 95/98/NT



Point and click setup

SystemView 800 setup is as easy as pointing to the proper box and clicking on a selection. All module parameters are viewed simultaneously eliminating the hassle of bouncing back and forth from screen to screen.

Alligator Technologies

