

The Scisense FA-416 is an economical, high performance sixteen channel data recorder for use with a broad range of analog amplifiers. The recorder offers 16-bit resolution at a maximum aggregate data collection speed of 100 KHz, making it appropriate for most research applications. The included LabScribe2 software allows "one-click" control of the entire acquisition process, plus a large library of standard analytical functions to process data. The Scisense FA-416 recorder is powered by a USB interface to any Macintosh or PC, eliminating the need to install special interface cards.



Resolution

The Scisense FA-416 recorder uses a 16-bit A/D converter to sample data over its full input range of $\pm 10V$ at speeds up to 100kHz. The low noise ($<1mV$) greatly reduces the need for gain and offset.

LabScribe2 Software Provides Powerful Analysis Tools

Installation and operation of the LabScribe2 acquisition and analysis software is easy and straightforward. It supports real units and a time based display that is not coupled to sample rate. The display can be configured to allow viewing of as many data points as the user desires. Scrolling, zoom-in and zoom-out tools, together with a searchable list of user interventions, make finding important areas of data easy.

LabScribe2 provides a powerful array of built-in data analysis tools. It strikes a balance between the straightforward, general operations that everyone uses and the vertical, complex routines that only you use. The result is a powerful analytical tool that can go to work on your data right away, or be customized to do very specific and complex

Exceptional Value

The Scisense FA-416 provides turnkey continuous recording solutions at a fraction of the cost and complexity associated with systems requiring PCI bus plug-in cards. No breakout box is required, as connectors are part of the enclosure. In fact, no other hardware is required to get up and running.

System Requirements

The Scisense FA-416 requires a minimum Pentium II or Celeron level 500MHz computer running Windows 98, ME, 2000, XP or VISTA with at least 1 GB of RAM, at least 1 GB of free space on the hard drive, and 1 free USB port.

Versions

Available with Pressure-Volume Loop Analysis Module (FA-416-PVL) or without Pressure-Volume Loop Analysis Module (FA-416).

Analog Input	
Inputs:	16
Input Impedance	1M Ohm
Input Range	+ 10 VDC
Noise	<1 mV
Digital Output	
Lines	4
Output Connector	DB9
Analog Output (Stimulator)	
Connections	1
DAC	16 Bit
Output Connector	BNC
Stimulator Performance:	
Time Step	0.04 ms, 0.4 ms, 4 ms
Pulse Width (max.)	1.2 S, 12 S, 120 S
Frequency	12.5 kHz, 1.25 kHz, 125 Hz
A/D Converter	
Sample Speed (samples/second)	100,000 aggregate
Resolution	16 Bit
Interface	USB 1.1 / 2.0 full speed
General	
Enclosure	Plastic
Power	USB
Warranty and Upgrades	The Scisense FA-408 hardware is protected with a three year warranty. Software upgrades are free, and are automatically delivered to registered users via the Web. LabScribe software may be freely distributed.
Software	
Software	LabScribe2
Trigger Modes	External Trigger (TTL or Contact Closure), Threshold Trigger from Data, User Trigger
Display	Real time, user definable Screen Time independent of Sample Rate, User Definable Units, AutoScale, Full Scale or User Defined Scale
Scisense Part Number	FA-416
Scisense Part Number	FA-416-PVL (with Pressure - Volume loop analysis module)