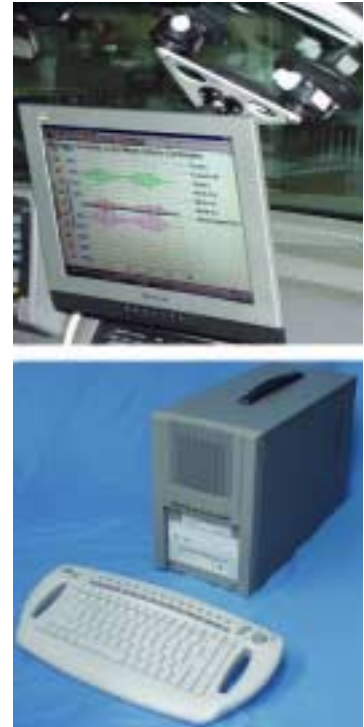


Data Acquisition Computer System

Model ACS-3.0

- Rugged data acquisition PC for harsh environment
- Accepts any PCI, ISA data acquisition board
- Accepts a variety of operating systems and A/D software
- Pentium III™ 1.3 GHz processor on an Industrial Motherboard
- Optional DC power (10 to 20 Volts for automotive power)
- Bright LCD flat panel display with option for vehicle mounting
- High mechanical shock tolerant internal hard drive
- CD-ROM reader and burner for quick data back-up
- Ethernet 10/100 for high speed data transfer
- Non proprietary and can be upgraded as needed



Description

Michigan Scientific's *ACS-3.0* is a specialized data acquisition system for use in harsh conditions. It serves as a rugged, high-speed, real-time data acquisition system with all the benefits of an open ended, non proprietary desktop computer. The computer chassis is a compact, industrial case that can be located and mounted separate from the keyboard and display. The computer and display can be optionally powered to accept 10-20 Volts DC for use in vehicle data acquisition. Incoming data can be digitized by any standard ISA or PCI bus A/D card and recorded on an internal hard drive capable of writing and reading data during high mechanical shock (75G). Data can be quickly transferred via Ethernet, CD or other optional media or processed in the field on the computer using any desired off the self computer software.

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Data Acquisition Computer System

ACS-3.0 Specifications

<u>PARAMETER</u>	<u>SPECIFICATION</u>
POWER REQUIREMENTS	
Voltage	AC 110 or optional 10-20 V DC (nominal vehicle 12 V)**
Current	1 amp AC power / 6-7 amps DC power (with A/D card installed)
ENVIRONMENT	
Operation	32° x 140° F (0° x 60° C)
INTERNAL SPECIFICATIONS*	
CPU	Pentium III 1.3 GHz processor @ 133 MHz bus speed
Cache Memory	512 KB Level II
Bus Interface	4 PCI slots, 3 ISA
BIOS	AWARD
Display Controller	32 MB AGB integrated
RAM	Four 168 pin DIMM, 256 MB standard (1 Gigabyte Max)
Hard Disk Controller	Ultra DMA 100 integrated on motherboard
LAN	10/100 Base T ethernet networking, integrated on motherboard
Parallel Port	1 Enhanced bi-directional; supports SPP/EPP/ECP
Serial Ports	2 RS-232 with 16C550 UARTs, 2 USB
Clock/Calendar	Real time with lithium battery backup good for 7 years
Keyboard/ Mouse connector	6-pin mini DIN connector accepts either mouse or keyboard
GENERAL SPECIFICATIONS	
Hard Drive	One 2.5" Industrial grade 40 GB (75 G operating shock)
Floppy Drive	Supports 1.4 MB disks
Flat Panel Monitor	15.0" diagonal color TFT active matrix up to 1024 x 768 resolution
Keyboard	Wireless keyboard with integrated mouse (RF)
* Standard configuration	
** With DC power option computer can be powered by either DC or AC power	

Options

A/D Card, Power, Software and Breakout I/O Options

The ACS3 system accepts any standard ISA or PCI bus A/D card to digitize incoming analog signals.

DC power option accepts DC voltage range of 10-20 volts suitable for automotive power and can also be powered from 110 AC. Power option includes integrated, low noise regulators and backup battery to power equipment during vehicle engine cranking.

Standard screw terminal I/O cards are available for all A/D boards. Michigan Scientific also offers a versatile multi-function breakout I/O box (ACS3-IO-B) that can be re-configured with various I/O connection panels and be outfitted with internal electronics for amplification of low level signals.

Many software options are available to process and control incoming data. Popular choices are SnapMaster by H.E.M., LabView and Daisy Lab by National Instruments. All three packages are capable of real-time graphical viewing and analysis of incoming data for storage and playback/printout. Michigan Scientific provides support and programming for these packages.

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