

New Acromag Ethernet Analog I/O units are the industry's lowest-priced 8-channel 16-bit A/D Modules

Acromag releases commercial and industrial-grade versions of its new 8-channel Analog Input Ethernet I/O modules to offer great cost savings for applications that don't require wide temperature and hazloc ratings.

Acromag has expanded its BusWorks® Ethernet I/O series of modules for distributed I/O and SCADA with new **967EN** and **968EN** models providing an 8-channel interface for differential analog voltage or current input signals. Each model is available in industrial and commercial-grade versions starting at just \$295 to greatly reduce costs for applications that do not need wide operating temperature ratings, advanced signal processing, or hazardous location safety approvals. The sub-\$300 price is the industry's lowest for an 8-channel module with 16-bit A/D conversion to Ethernet. Industrial-grade units add superior accuracy, a signal integrator/totalizer function, peer-to-peer messaging, -40 to 70°C capability, and are designed to meet UL/cUL Zone 2 Class 1 Division 2 ABCD requirements. All units provide 16-bit A/D conversion of sensor inputs for Modbus TCI/IP control network communication.



Two models, each with 8 differential analog inputs, support a variety of I/O ranges. The 967EN accepts DC current with $\pm 20\text{mA}$, $0\text{-}20\text{mA}$, or $4\text{-}20\text{mA}$ input ranges. 968EN models accept $\pm 5\text{V}$ or $\pm 10\text{V}$ ranges. Fast scanning updates all eight channels in less than 10mS . Dual-format data registers support both 16-bit integers and 32-bit floating point formats. IEEE-754 32-bit floating point scaling registers are configurable on a per-channel basis. A sample averaging function is also configurable. On industrial-grade units, an integration function can totalize inputs with non-volatile counter registers on all channels. Surge protection and 3-way 1500V isolation between I/O, power, and network circuits increase reliability.

Common applications involve monitoring temperature, pressure, flow, and level instruments in process control, automation, remote data acquisition and supervisory management systems. Acromag's i2o® technology enables fast peer-to-peer communication between 967/968EN input modules and corresponding BusWorks output modules over any Ethernet media without a PC or host controller in between. Updates are triggered by a percent change or at set intervals (0.1% , 100mS resolution).

These input modules are very easy to use. No software is required as the units are configured using any web browser to set operating parameters on embedded configuration menus. An auto-copy function lets users rapidly apply a saved configuration to multiple units. The automatic calibration function uses built-in precision sources and on-demand self-test capability verifies the calibration. Front-panel LEDs provide a visible confirmation of proper operation.

Acromag is an international corporation that has been developing and manufacturing measurement and control products for more than 50 years. They offer a complete line of industrial I/O products including process instruments, signal conditioning equipment, data acquisition boards, distributed I/O modules, and network communication devices.

For more information about Acromag products, call the Inside Sales Department at (248) 295-0880 or Marketing Communications at (248) 295-0865, FAX (248) 624-9234. E-mail sales@acromag.com or write Acromag at P.O. Box 437, Wixom, MI 48393-7037 USA.

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Shown: BusWorks Model 967EN and 968EN analog input modules for Ethernet control networks

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