

# Subject: 16-Channel Ethernet Analog I/O Greatly Reduces Costs

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## Acromag Industrial I/O Solutions

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### New Ethernet Analog I/O packs 16 channels of 16-bit A/D into an inch

*Acromag introduces new 16-channel Analog Input modules with Ethernet communication in a space-saving unit to simplify installation and significantly reduce the cost of interfacing sensor signals to remote controllers.*

Acromag continues to expand its line of [BusWorks® Ethernet I/O modules](#) for distributed I/O and SCADA with new [993EN](#) and [994EN](#) models providing a 16-channel 16-bit A/D interface for single-ended analog voltage or current input signals. The



### Ethernet I/O



NEW Low-cost commercial or industrial-grade Ethernet I/O

### Ethernet I/O



16-channel Ethernet discrete I/O features counter/timers

### Instant Poll



space-saving inch-wide units make it very easy to retrofit older control systems for Ethernet Modbus TCP/IP networking and greatly reduce the cost per channel in new installations. Users can select industrial-grade or commercial versions (starting under \$500) for significant savings in applications that do not need the extra performance and safety approvals. Industrial-grade units add superior accuracy, a signal integrator/totalizer function, -40 to 70°C capability, and are designed to meet UL/cUL Class 1 Division 2 ABCD (Zone 2) requirements. [read more](#)



Watch new low-cost commercial or industrial grade Ethernet I/O modules [video](#).

## Ask the I/O Experts

*Question:* I have an Allen-Bradley CompactLogix PLC communicating via Ethernet/IP to control our process. I need to log the continuous I/O status on our Wonderware HMI which includes a Modbus driver. Do you have any network products that can communicate with both the PLC and the HMI?

*Answer:* Yes. Acromag offers two protocols for Ethernet networks in our BusWorks series, Modbus TCP/IP and Ethernet/IP. Modbus is open and many companies make products that communicate using Modbus. Ethernet/IP is typically used with Allen-Bradley PLCs.

On an Ethernet network, we engineered our Modbus TCP/IP Slave units to communicate with up to 10 network Masters using Modbus. On the unit's internal Network Configuration web page, there is an entry field labeled "Sockets" which sets the number of Masters.

On our Ethernet/IP units, we support up to 11 Masters. In Ethernet/IP, the number of Masters, or "Ports," is set through software. Up to 10 Masters can communicate with our Slave units using Ethernet/IP, but we also make available one additional access point for Modbus TCP/IP communication. The dual protocol support lets you communicate with Acromag I/O modules using Modbus and Ethernet/IP at the same time.

So yes, we do have "multi-lingual" I/O modules that can talk to a PLC using Ethernet/IP and an HMI using Modbus TCP/IP, concurrently.

## Ethernet I/O Trial Offer

Are you new to Acromag's Ethernet I/O? Want to try a couple of units to see how easy things work and how they can benefit you? [Click for details](#).

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Click image to see a larger screen capture of a configuration page.

## New Acromag Distributor

Acromag is pleased to announce [AD Electronics Pvt. Ltd.](#) as our new Factory Authorized Distributor in India. Located in Mumbai, AD Electronics can help you with all of your Process Instrumentation needs. To contact AD Electronics by phone dial +91 22 28701642.

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For more information contact Acromag's sales department at 248-295-0880 or send an email to [sales@acromag.com](mailto:sales@acromag.com).

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