



Quantum I/O

16-Channel Universal Analog Input

Catalog Number 140 AUI 040 00sc



Maximum flexibility with 16 channels user selectable for thermocouple, voltage, current and RTDs.

The 16 channels are divided into four groups. Each group supports up to four voltage/current/thermocouple inputs or two RTD inputs.

- ▶ **Versatility** through the module's unique ability to interface to four different sensor types without any special connectors or signal conditioners.
- ▶ **Robustness** through over voltage protection and over current protection plus active band pass filtering. Features 1000 Vdc channel-to-backplane isolation; 1000 Vdc channel-to-chassis ground isolation; 12.5 Vdc channel-to-channel isolation for voltage, thermocouple and current input types.
- ▶ **Value** through reduction of processor resources consumed. One 16-channel module uses memory comparable to a standard 4-channel module.
- ▶ **Precision** through 16-bit resolution and reasonable accuracy to help tackle almost any instrumentation job.

**Food/Beverage, Utility, Oil/Gas, Food/Beverage,
Building Automation, Water/Wastewater**

32-Channel High Density Analog Input

Catalog Numbers 140 ACI 051 00sc (Voltage/Current)

140 ACI 052 00sc (Voltage/Current with Time Stamp)

Lowest price per point available.

- ▶ **Versatility** through four groups of eight inputs, each group is configurable for voltage or current inputs.
- ▶ **Robustness** through over voltage protection, over- and underrange detection, and active band pass filtering
- ▶ **Precision** through 16-bit resolution and .05 percent accuracy
- ▶ **Time Stamp** data logging option is ideal for SCADA applications. The time stamping feature allows for monitoring of critical operations.

**Power Monitoring, Oil/Gas, Pulp/Paper,
Pharmaceutical, Automotive**

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4- and 8-Channel Counter/Turbine Flowmeter

Catalog Numbers 140 EHC 204 00sc (4-Channel)

140 EHC 208 00sc (8-Channel)

Suitable for a wide variety of count and flow applications that require AC or DC input signals.

- ▶ **Flexibility** as both versions support incremental, single-ended counter or quadrature counters by combining inputs into pairs.
- ▶ **Dynamic** external counter enable inputs allow for real-time counter control.
- ▶ **Versatile** turbine flowmeter inputs include K and M factors and the ability to be configured for flow metering applications.
- ▶ **Cost Effective** features lower installation costs, field devices may be interfaced directly to the module eliminating additional external conditioning devices.

**Food/Beverage, Packaging/Material Movement
Flow Station Measurement, Custody Transfer**

4-Channel Flow/Meter Proving

Catalog Number 140 MPM 204 00sc

Flow measurement and meter proving in one module.

- ▶ **Functionality** offers the benefits of a stand-alone flow computer with the convenience and reliability of a Quantum PLC.
- ▶ **Eliminate** dedicated flow computers by combining this module with the Spectrum Controls Universal Analog Input Module and the Modicon Function Block to achieve flow computer functionality with the reliability, security and simplicity of a PLC.
- ▶ **Versatility** - Four flowmeter inputs—each easily configured for AC or DC signals. Inputs support pulse fidelity checking and double chronometry for meter proving.
- ▶ **Cost Effective** - Dramatically lower installation costs as meters may be interfaced directly to the module. Eliminates the expense of additional external conditioning devices.
- ▶ **Agency Approved** - Provides Pulse Fidelity Checking per American Petroleum Institute (API) standards.



**Petro/Chemical - Pipeline Monitoring,
Custody Transfer and Totalized Flow**



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