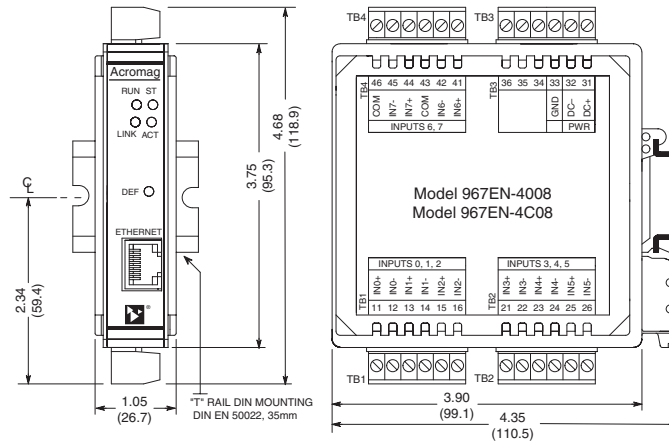


# Ethernet I/O: BusWorks® Series

## 967EN Ethernet Analog Input Modules



Standard model includes cage clamp terminal blocks. Optional terminals are available.

**Modbus/TCP**  
conformance tested

### 8-channel Differential Current Input ♦ Modbus TCP/IP, i2o® Peer-to-peer Communication

#### Description

##### Models

967EN-4008: Industrial-grade units  
967EN-4C08: Commercial-grade units

These modules interface high-level analog input signals to an Ethernet network. A high-performance design ensures reliable measurements and dependable operation.

Industrial-grade models add a configurable integrator/totalizer plus superior accuracy and temperature performance compared to the economical commercial-grade version.

##### Input Ranges

±20mA, 0-20mA, 4-20mA DC  
(selectable on each channel)

##### Ethernet Communication

Modbus TCP/IP, 10/100Base-T(X),  
i2o peer-to-peer

##### Power Requirement

18 to 36V DC, 2.4W

##### Approvals

CE, UL/cUL (industrial-grade units only)  
Zone 2, Class 1, Division 2, ABCD

#### Key Features & Benefits

- High-resolution 16-bit A/D
- Fast scanning of all channels in 8mS
- 3-way isolation and surge suppression
- Peer-to-peer i2o communication with percent-of-span or timed-based updates
- Configurable integration/totalization function with non-volatile registers
- Dual-format 16/32-bit data registers
- Scaling registers on all channels
- Configurable sample averaging
- Automatic calibration and self-test
- User-adjustable TCP Ports 1-99,999 for advanced network configuration
- Web browser configuration with copy utility for fast setup

#### i2o® Peer-to-peer Messaging

With Acromag's i2o technology, you can map each input channel to any output channel on a 97xEN-400x output unit. Select updates based on time or on a percent of range change (100mS or 0.1% resolution).

#### Performance Specifications

##### Accuracy

967EN-4008: Less than 0.05% of range  
967EN-4C08: Less than 0.10% of range

##### Input Impedance

200 ohms.

##### Operating Temperature and Humidity Ranges

967EN-4008: -40 to 70°C (-40 to 158°F)  
967EN-4C08: 0 to 55°C (32 to 131°F)

Relative humidity: 5 to 95%, non-condensing

##### Isolation

3-way isolation of I/O, power, network circuits.

Peak: 1500V AC, ANSI/ISA-82.01-1988.  
Continuous: 250V AC, 354V DC.

#### Ordering Information

##### ♦ I/O Modules

967EN-4008 {industrial-grade}  
8-ch current input module with integrator

967EN-4C08 {commercial-grade\*}  
8-ch current input module

\* CE approval only, no integrator function

##### ♦ Accessories

Industrial Ethernet Switches

Hardware Accessories and Power Supplies

Software Support



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