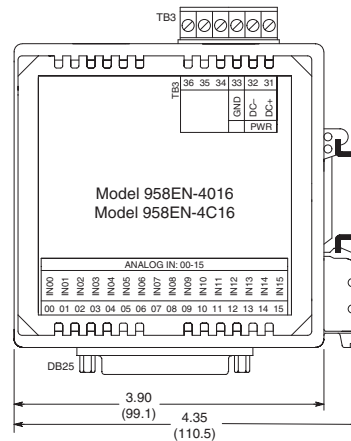
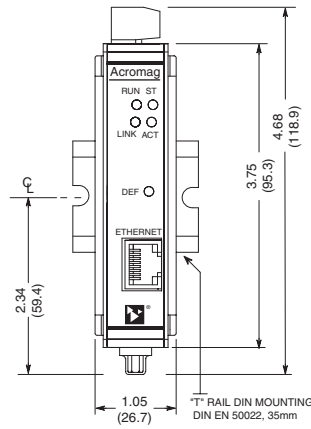
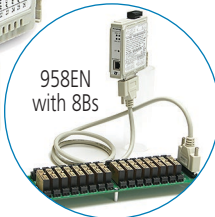


# Ethernet I/O: BusWorks® Series

## 958EN Ethernet 8B Interface Modules (Analog Input)



Standard model includes cage clamp terminal blocks. Optional terminals are available (see Page 26).

**Modbus/TCP**  
conformance tested

16-channel Single-ended Voltage Input ◆ DB25 Port for 8B Modules ◆ Modbus TCP/IP communication

### Description

#### Models

958EN-4016: Industrial-grade units  
958EN-4C16: Commercial-grade units

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

The DB25 port provides a parallel connection to a rack of 8B analog input modules. The 8B modules provide an isolated front-end with signal conditioning of up to 16 sensor signals.

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

#### Input Ranges

±5V DC via DB25 port connection (default) or ±10V DC

#### Ethernet Communication

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

#### Power Requirement

18 to 36V DC, 2.0W

#### Approvals

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

### Key Features & Benefits

- DB25 port provides an easy connection to a rack of 8B signal conditioning modules (4, 8, or 16 ch panels supported)
- High-resolution 16-bit A/D
- Fast scanning of all channels in 8mS
- 3-way isolation and surge suppression
- Configurable integration/totalization function with non-volatile memory
- 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

### Performance Specifications

#### Accuracy

958EN-4016: Less than 0.05% of range.  
958EN-4C16: Less than 0.10% of range.

#### Input Impedance

4M ohms

#### Operating Temperature and Humidity Ranges

958EN-4016: -40 to 70°C (-40 to 158°F)  
958EN-4C16: 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

Go to on-line ordering page >

958EN-4016 {industrial-grade}  
16-ch voltage input module with integrator

958EN-4C16 {commercial-grade\*}  
16-ch voltage input module

\* CE approval only, no integrator function

#### ◆ Accessories

Industrial Ethernet Switches

Hardware Accessories and Power Supplies

Software Support



Tel: 248-295-0880 ■ sales@acromag.com ■ www.acromag.com ■ 30765 S Wixom Rd, Wixom, MI 48393 USA