

## Network Sensor Interface

The EMF-EIO03 is a simple field I/O devices intended to interface to motor controls and power equipment. Fully isolated I/O provides the ability to interface to AC and DC circuits on the same module. POE eliminates the need for an additional DC power supply in the control cabinet.

### I/O

The EMF-EIO03 industrial I/O device is designed to solve the most demanding industrial monitoring and control requirements by simple configuration, maximum throughput, and minimum downtime.

The device features 8 optically isolated discrete inputs capable of surviving severe input transients, and 4 mechanical relay contact outputs.

### Available Products

#### Ethernet Switching

Field PoE Switch

Rail PoE Switch

Managed Switch

#### Ethernet I/O

Modbus/TCP – 4AI, 4DI, 2DO

Modbus/TCP – 8 DI, 4 Frm A

#### Serial I/O

Modbus/RS485 – 4AI, 4DI, 2DO

Modbus/RS485 – 8 DI, 4 Frm A

## Specifications

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### Ethernet Network

Ports	1 RJ45
PoE	IEEE 802.3af, Legacy PoE supported
Over Current Protection	to 802.3af
Port Isolation	1200 V RMS, 1 minute

### Power

Input Voltage	10-60 Vdc
Power Required	1.5 W

### I/O Specifications

<b>Discrete In</b>	8 Channels
Input Voltage	24 Vdc nom 120 Vac nom 240 Vac nom
<b>Discrete Out</b>	4 Channels
Type	Form A (1 NC)
Range	30 Vdc, 240 Vac
Max Current	5 A dc, 10 A ac

### Physical Parameters

Dimensions	4.25 x 2.75 x 2.25 "
Rating	IP54
Mounting	DIN Rail, 35 mm
Housing	Polycarbonate, UL94-V0
Operating Temp	-40 to 85 deg C
Storage Temp	-40 to 85 deg C

## Features

### Industrial Hardware

- Industrial I/O with multiple input options
- Fully isolated inputs and outputs, optically isolated inputs, mechanical relay contact outputs
- Small form factor eases installation
- Industrial rated -40 to +85 °C operation
- Standard DIN rail mounting

### Control Network

- Modbus/TCP on Ethernet enables simple installation and configuration
- Supports function codes 01, 02, 03, 04, 05 and 0F
- Configurable loss of communication output action
- Discovery tool eases initial setup

### Power over Ethernet

- Receives power from 802.3af power sources, midspan injectors and legacy PoE networks

### Order Numbers

EMF-EIO03-24	Nominal 24 V inputs
EMF-EIO03-120	Nominal 120 V inputs
EMF-EIO03-240	Nominal 240 V inputs