

ENODE®

Distributed I/O Controller

The ENODE controller is an open architecture, modular Ethernet device that can be integrated directly into Facility Net software. This controller monitors modules of isolated digital and analog inputs, and monitors alarm output contacts (digital or relay).



BENEFITS

Cost Effective

- Modular design allows for up to 48 signal inputs and 24 relay outputs per monitoring device, reducing cost per point
- Sample interval is configured per channel, reducing the number of modules required for different applications
- 4-20 mA and 0-10 V analog input types are configured per channel, not per module, also reducing the number of modules

Easy to Use

- Plug and play modules allow for ease of system expansion
- Auto recognition through Facility Net software speeds up system configuration
- DIN rail mounting and removable screw terminals allow for simple installation
- Distributed architecture allows for modules to be installed anywhere throughout the facility

Superior Performance

- High accuracy, 12-bit analog converter gives 0.25% full scale overall accuracy
- 1,000 sample data buffer stores data when offline from Facility Net software; data is exported on reconnection
- TCP/IP Ethernet communication ensures reliability of data transmission
- One second sample interval for fast data-logging

FEATURES

- Modular I/O components allow for flexible system designs
- Ethernet 10BaseT/100BaseT connectivity to local networks
- Data buffer stores samples when connection to software is lost
- 16 analog channels per module; 4-20 mA and 0-10 V signal compatible with an overall accuracy of 0.25%
- 16 digital input channels per module
- 12 relay output contacts
- 12 digital outputs

APPLICATIONS

- Environmental monitoring and control
 - Differential pressure, temperature, humidity, air velocity, and other sensor signals
 - Alarm lamp or traffic light control
 - Flashing modes
- Process monitoring and control
 - Doors and switches monitored at each stage of process
- Networked data-logging
- Remote data acquisition

Without measurement, there is no control.

Specifications

Processor Unit

Operating system:	Windows® CE 3.0
Processor:	AMD Elan SC400, 32-bit, 66 MHz
Ethernet:	10/100BaseT (RJ-45)
RAM:	64MB
Non-volatile storage:	32MB
Serial ports:	One, RS-232 (Up to 115K Baud)
Power:	5 VDC @ 1 A max.
Dimensions (l, w, h):	4.6" x 3.4" x 6" (11.6 x 8.5 x 15.0 cm)

Power Module

Input connector:	90-260 VAC, 50-60 Hz IDE
Output:	5 V, 10 A max.
Dimensions (l, w, h):	4.5" x 3.4" x 6" (11.6 x 15.0 x 8.5 cm)

Analog Input Module

Inputs:	16 single-ended, 8 differential
Resolution:	12-bits (1 in 4096)
Input ranges:	0 to 10 V or 0 to 20 mA
Over voltage protection:	Power on or off, -40 V to +55 V
Overall accuracy:	± 0.25% full scale
Dimensions (l, w, h):	4.6" x 1.7" x 6" (11.6 x 4.2 x 15.0 cm)

Digital Input Module

Digital input:	Opto isolators 16 inputs
Turn-on time:	6 mS min.
Turn-off time:	35 mS max.
Isolation	
Channel to channel:	500 V
Input to output:	1500 V
Current consumption:	5 VDC 500 mA max.
Dimensions (l, w, h):	4.6" x 1.7" x 6" (11.6 x 4.2 x 15.0 mm)

Relay Outputs

Single pole/single throw:	12 channels
DC:	2A @ 30 VDC
Isolation	
Channel to channel:	500 V
Input to output:	1500 V
Current consumption:	5 VDC 200 mA max.
Dimensions (l, w, h):	4.6" x 1.7" x 6" (11.6 x 4.2 x 15.0 cm)

Digital Outputs

Open drain:	24 VDC
Isolation	
Channel to channel:	500 V
Input to output:	1500 V
Current consumption:	5 VDC 160 mA max.
Dimensions (l, w, h):	4.6" x 1.7" x 6" (11.6 x 4.2 x 15.0 cm)

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AUTHORIZED REPRESENTATIVE



Registration applies to the Boulder, Colorado facility



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