

Putting Your Data Where You Need It

Networked Data Acquisition that is fast, simple and easy to use. This is our guarantee to you.



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OpenNet-1000: Data Acquisition Unit Embedded Internet Data Acquisition and Control

Plug-and Play Installation
Built-in web (Internet) Services
Remote Data Acquisition and Control

GENERAL DESCRIPTION

The OpenNet-1000: Data Acquisition Unit is an embedded Internet controller. All OpenNet devices have been designed to simplify transferring sensor and process information directly across networks, whether it is your internal LAN or the Internet. The OpenNet-1000 leverages the true power of the Internet, which is the ability to get the right information to the right person at the right time from the right device.

Using the e-mail server, alarms that would normally trigger a pilot light or sound a horn can instead send messages to specific individuals or to groups of users from your distribution list.

Using the web browser to obtain plant-floor and other process data, you are assured of more efficient access to information than with other devices. We provide the tools you need to create the free flow of information between your manufacturing processes, your staff, and your business applications.

The OpenNet-1000 is an easy to use, cost effective, general-purpose programmable I/O device with software configurable field connections, process control and user interface. This self-contained unit has an Ethernet interface for direct connectivity to computer networks. Interaction with the OpenNet-1000 is through the Ethernet port using any 'XML aware' application including: web browsers, databases or OpenNet's Configuration Utility.

Embedded firmware dynamically generates XML documents that contain immediate data, alarm status, and trend data from the sensors and other devices monitored by the OpenNet-1000. The embedded HTTP server hosts user created web pages and serves raw XML documents for other applications.

The OpenNet-1000 eliminates the need to work with XML parsers, XSL, XSLT or ASP in order to visualize or post acquired data to a browser. Because we use XML for communications, data from the OpenNet-1000 is easily integrated into any application, especially those that are XML aware.



PRODUCT BENEFITS

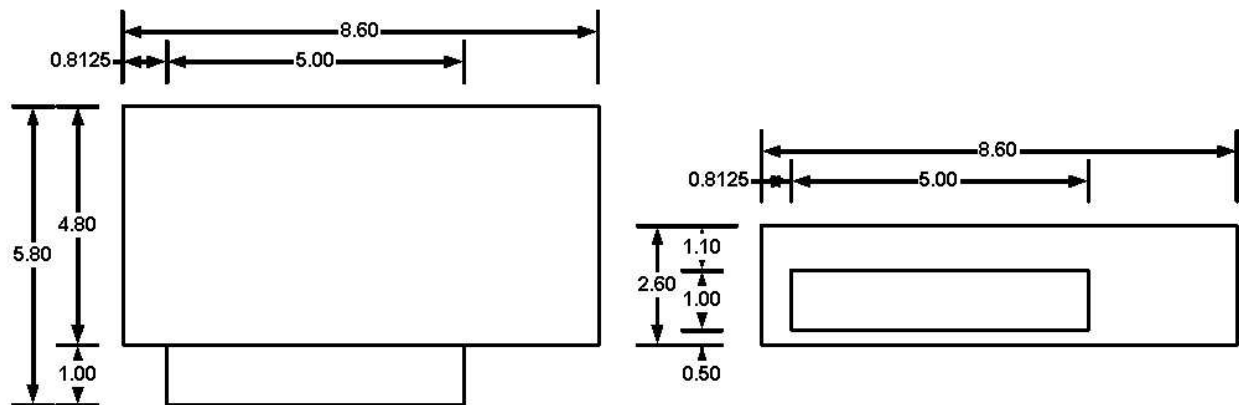
- Plug-and-Play installation.
- Easy to use Configuration Software.
- Integrated web (Internet) services.
- Built in e-mail alarms.
- Built in web server for display of system data.
- Simple and easy transfer of process and system data across computer networks and the Internet.

STANDARD FEATURES

- Eight (8), 12-bit Analog Input Channels.
- Sixteen (16), TTL Level Digital IO Channels.
- Battery Backed SRAM and Real-time Clock.
- Supports 1 Digital I/O Module.
- XML communication, no reliance on proprietary systems.
- Simple and direct integration with computer networks and Internet (LAN) products, such as routers (wired and wireless) and IMS (Instant Message Service) cell phones.
- Internet Services and Communication Protocols.
HTTP (for viewing browser pages)
UDP (for device discovery)
SMTP (e-mail alarm messages)
XML (for communications and data transfer)
JAVA Scripts (data presentation)

APPLICATION EXAMPLES

- Distributed Data acquisition and control.
- Process monitoring, both real-time and trends.
- Alarm notification via e-mail.
- Add web (Internet) services to your existing designs.



OpenNet-1000

All dimensions in inches.

SPECIFICATIONS	CONNECTOR DEFINITIONS					
<p>General</p> <p>Input Power: 24 VAC or 24 VDC. 300 mA without 24 VDC Output. 1.3 Amps with full 24 VDC Output.</p> <p>Temperature Range (Operating) 0° C to 55° C</p> <p>Repeatability 0.1% of range</p> <p>Sample Rate 300 samples per second</p>						
<p>Analog Input Section</p> <p>Eight (8) Analog Channels. Can be used as 8 single-ended or 4 double-ended (differential) voltage channels.</p> <p>Voltage Input Specifications: 0 – 5 V, 0 – 10 V, +/- 5 V, +/- 10 V.</p> <p>Current Input Specifications: 4 – 20 mA, 0 – 20 mA.</p>	1	Analog Ground	17	Digital IO 3	33	Analog In 8
	2	- Excitation	18	Digital IO 4	34	+ Excitation
	3	Analog In 1	19	Digital IO 5	35	Analog Ground
	4	Analog In 2	20	Digital IO 6	36	Chassis Ground
	5	+ Excitation	21	Digital IO 7	37	Digital Ground
	6	Analog Ground	22	Digital IO 8	38	Digital IO 9
	7	- Excitation	23	Digital IO 9	39	Digital IO 10
	8	Analog In 3	24	Digital IO 10	40	Digital Ground
	9	Analog In 4	25	Analog Ground	41	Digital IO 11
	10	+ Excitation	26	- Excitation	42	Digital IO 12
	11	+ 24 VDC Output	27	Analog In 5	43	Digital Ground
	12	Analog Ground	28	Analog In 6	44	Digital IO 13
	13	Digital Ground	29	+ Excitation	45	Digital IO 14
	14	Digital IO 1	30	Analog Ground	46	Digital Ground
	15	Digital IO 2	31	- Excitation	47	Digital IO 15
	16	Digital Ground	32	Analog In 7	48	Digital IO 16
	+	I/O Module +	-	I/O Module -	Digital I/O Module	
<p>Digital Input/Output Section</p> <p>Sixteen (16) Digital I/O Channels. 0 – 5 V (TTL levels)</p> <p>Each line can be individually configured for input or output. Channel 1 is optionally used to control a standard 5 pin I/O module.</p>						

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