

# INDUSTRIAL CONTROL COMMUNICATIONS, INC.

## ETH-1000 Multiprotocol Ethernet Gateway

### *Flexible, Powerful and Easy-to-Use Industrial Ethernet Gateway*

The ETH-1000 is a user-configurable multiprotocol Ethernet / RS-485 communications gateway, which allows seamless bridging between various popular industrial and commercial communication networks. As a member of the Millennium Series line of communication gateways, the ETH-1000 is able to leverage the common form factor, configuration and usage experience available to all of these products. Using the Microsoft Windows®-based *ICC Configuration Studio*, users can perform the following tasks:

- Configure protocols, network characteristics, and client/server object definitions
- Graphically interact with the internal database in real-time
- Automatically update device firmware
- Define autonomous elements such as database logic, email alarms and object failsafe values
- Capture, display and save serial network traffic with microsecond-precision timestamps

The ETH-1000 incorporates a variety of leading-edge automation and IT technologies, such as:

- USB connectivity with virtual COM port support
- 10/100Base-T Ethernet port
- Power can be applied three different ways: via the USB cable (for configuration at a workstation), as a 7-24VDC input on the main terminal block, or via IEEE 802.3af Power over Ethernet / PoE (no need for a local power supply!)
- Internal operations managed by a pair of powerful 32-bit processors
- Autonomous alarm evaluation with email notification
- Real-time web browser-based interaction via an Adobe® Flash Player plug-in. This includes support for database interaction and a dashboard GUI with multiple windows, each of which can be configured to display data in a variety of meter/graph/gauge formats
- User-configurable network timeout behaviors
- 2-wire / 4-wire RS-485 network supports baud rates up to 115.2kbaud
- Desktop, panel/wall and DIN-rail mountable (all hardware included)
- PLC-style logical, arithmetic, trigonometric and filtering database manipulation operations allow the construction of complex data conditioning functions

### Supported networks/protocols currently include:

- EtherNet/IP (client & server)
- Modbus/TCP (client & server)
- BACnet/IP (client, server & BBMD)
- PROFINET IO (server)
- CC-Link IE Field SLMP (client)
- Allen Bradley CSP (client & server)
- Generic Socket driver (client & server)
- Modbus RTU (master, slave & sniffer)
- BACnet MS/TP (client & server)
- Johnson Controls Metasys® N2 (master & slave)
- DMX-512 (master & slave)
- M-Bus (master)
- Siemens FLN (master & slave)
- For a complete list of supported drivers, refer to the "Millennium Series Supported Drivers List"



ICC

For more information about this and other industrial & commercial communication interface products, visit us online at <http://www.iccdesigns.com>.

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