



An Ethernet/Internet Connectivity Solution for Watlow Modbus™ Controllers

Watlow's EM Gateway serves as a bridge for Modbus™ communication between ethernet and Watlow standard controllers. The Gateway provides a quick, convenient and economical means of adapting controllers to ethernet connectivity.

Ethernet communications is rapidly gaining popularity in industrial control applications by enabling the flow of information between processing equipment and the company's ethernet-based management systems.

Watlow's EM Gateway provides an operator interface by serving web pages to an Internet browser to support key control operations such as process monitoring, set point changes, alarm management and error notification. The browser can be used to monitor the process, make set point changes, manage alarms and generate e-mails to notify remote locations of an alarm condition.

The gateway communicates with Watlow controllers via a Modbus™ EIA 485/EIA 232 communications network. Watlow controllers supported by the EM Gateway include:

- Series 981/982*
- Series 988/989*
- Series 998/999*
- Series 96/97
- Series F4
- Power Series
- CLS200
- MICRODIN®

WATVIEW™, Watlow's Windows® based HMI (Human/Machine Interface) software, can utilize the gateway to configure as well as operate, monitor and data log key control parameters such as process and set point value and alarm status. WATVIEW software will be available June, 2002. The EM Gateway supports up to 16 controllers in any combination, making it ideal for applications that require multiple loops of control.

The EM Gateway is a standard product available from stock for quick shipment, and is backed by a three-year warranty.

* These controllers are not supported by WATVIEW.

Windows® is a registered trademark of Microsoft Corporation.
Modbus™ is a trademark of Schneider Automation Incorporated.

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Features and Benefits

Ethernet/Internet connectivity

- Allows the user to operate and monitor their process remotely

Embedded Web Server

- Remote operation & process monitoring with standard web browsers

Dedicated web page design

- Web pages specifically designed for easy use and operation

E-mail alarm notification

- Reduces process monitoring costs

WATVIEW communications capability

- Allows the user to operate WATVIEW or a browser with the same PC connection



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WIN-EMG-0303

ISO 9001



Your Authorized Watlow Distributor is:

Printed in the USA on Recycled Paper, 15% Postconsumer Waste



Specifications

Power Supply

- Voltage input 24V \approx (ac/dc) + 10%, -15%, 50/60Hz \pm 5
- Connection through two position removable screw style terminal block

Environmental

- Operating temperature range 0 to 60°C (32 to 140°F)
- Storage temperature range -40 to 70°C (-40 to 158°F)
- Operating and storage humidity 0 to 90% non-condensing

Indication

- Green LED for ethernet connection
- Green LED for ethernet activity
- Green LED for EIA485/232 activity

Agency

- EN 50082-1 light industry

Communications

- Modbus™ RTU communications
 - EIA 485/EIA 232 supported
 - Connection through five position removable screw style terminal block
- Ethernet communications
 - Ethernet RJ 45 connector
 - 10 base T
 - HTTP interface
 - Modbus™ TCP
 - DHCP, Auto IP or fixed IP address
 - E-mail alarm notification

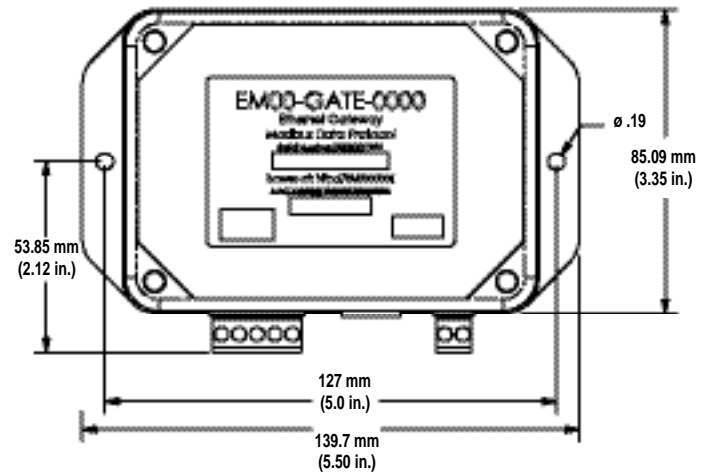
Dimensions

- 85.09 mm (3.35 in.) width x 139.7 mm (5.50 in.) length, 34.54 mm (1.36 in.) depth

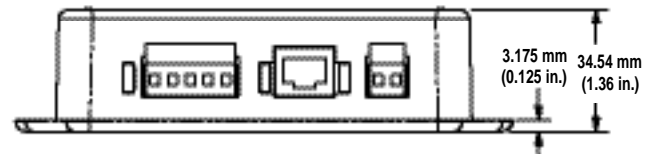
Ordering Information

Order part number EM00-GATE-0000

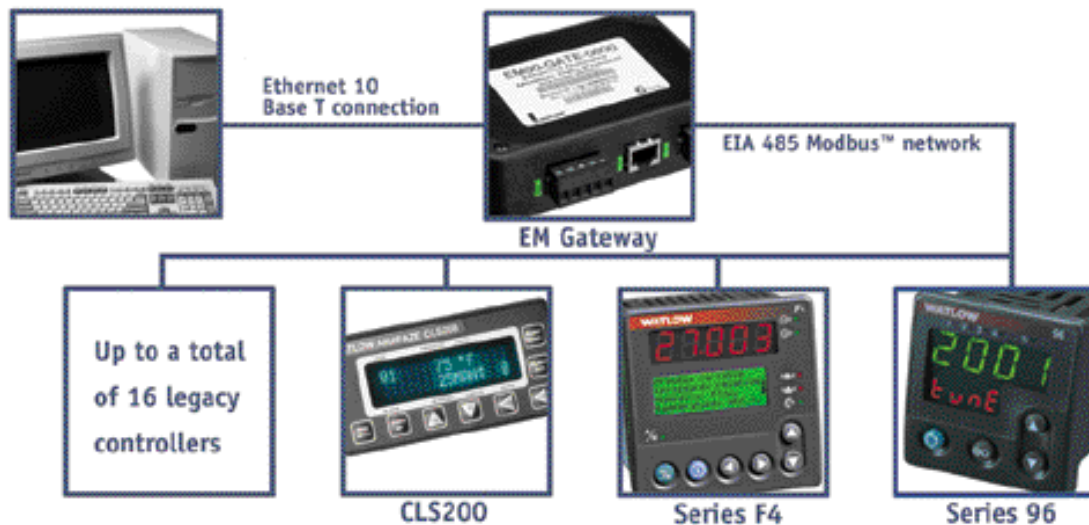
Top View



Front View



EM Gateway Network Wiring Diagram



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