

PERTRONIC INDUSTRIES LTD

INSTALLATION INSTRUCTIONS



Ethernet Gateway

Overview

The Ethernet Gateway is an interface that provides connection to the Pertronic Graphics System using a customer's local area network (LAN).

Physical Connection

The Ethernet Gateway is installed within the Pertronic fire panel and is connected to the panel's external RS485 4-wire connection.

The interface can be connected in three distinct operating modes:

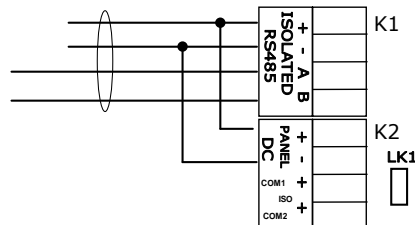
- Connection to the analogue addressable panel.
- Connection to the analogue addressable panel AND up to sixteen volt-free external inputs (to appear on the PGS).
- Connection to up to sixteen volt-free external inputs (to appear on the PGS).

Before installation determine which operating mode applies.

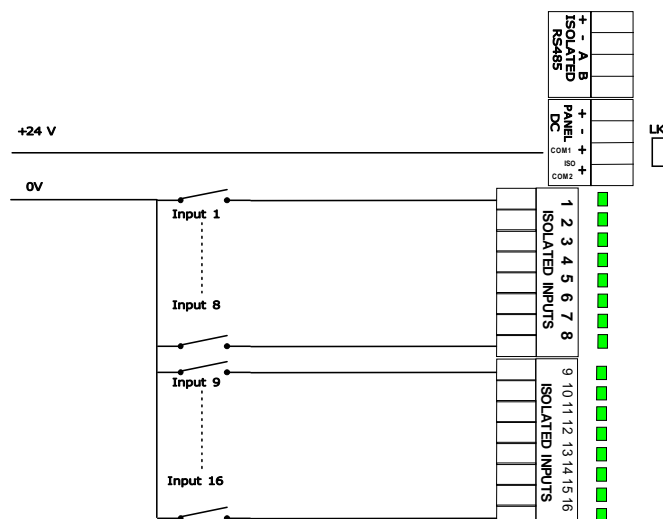
Steps to Install the Ethernet Gateway

Caution: DO NOT APPLY POWER UNTIL STEP 6

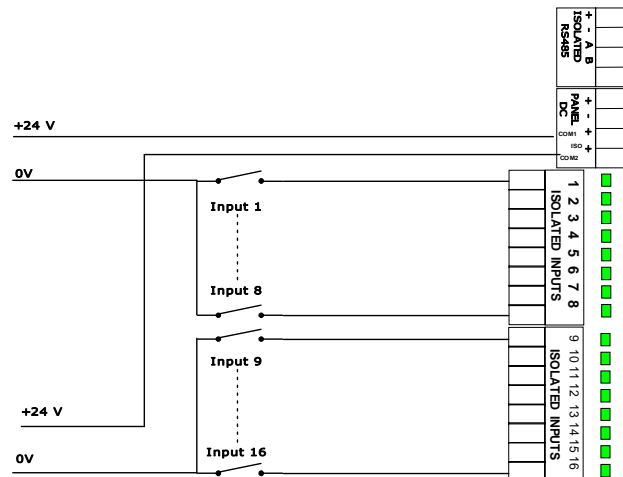
1. Mount the Ethernet Gateway in the fire panel cabinet.
2. Use a 4-wire RS485 cable to connect from the panel's external RS485 terminal to the Isolated RS485 connector (K1).
3. Connect K1 + to K2 + (Panel DC), and K1 - to K2 - (Panel DC). See diagram below:



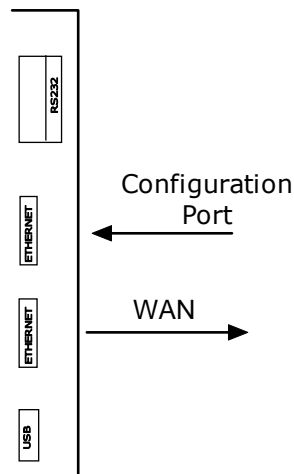
4. Connect the LAN cable to the Ethernet port.
5. Connect the inputs as shown.
 - Either 16 inputs in one group (LK1 fitted), as in the following diagram:



- Or Two Groups of 8 Inputs (LK1 removed), as in the following diagram:



6. Check that the SD memory card is inserted and that connectors K1 and K2 are plugged in. Apply power to the unit.
7. Connect a computer to the Configuration port to set the various parameters required. See **Configuration**, next page, for further details.



Firmware

The firmware for the gateway is stored in an SD memory card which is plugged into a socket on the processor daughter board.

The following panels are supported:

Panel	Status	Firmware Version
F120 NZ	Supported	
F120 Australia	Supported	
F120 China	Supported	
F100 NZ	Supported	
F100 Australia	Supported	

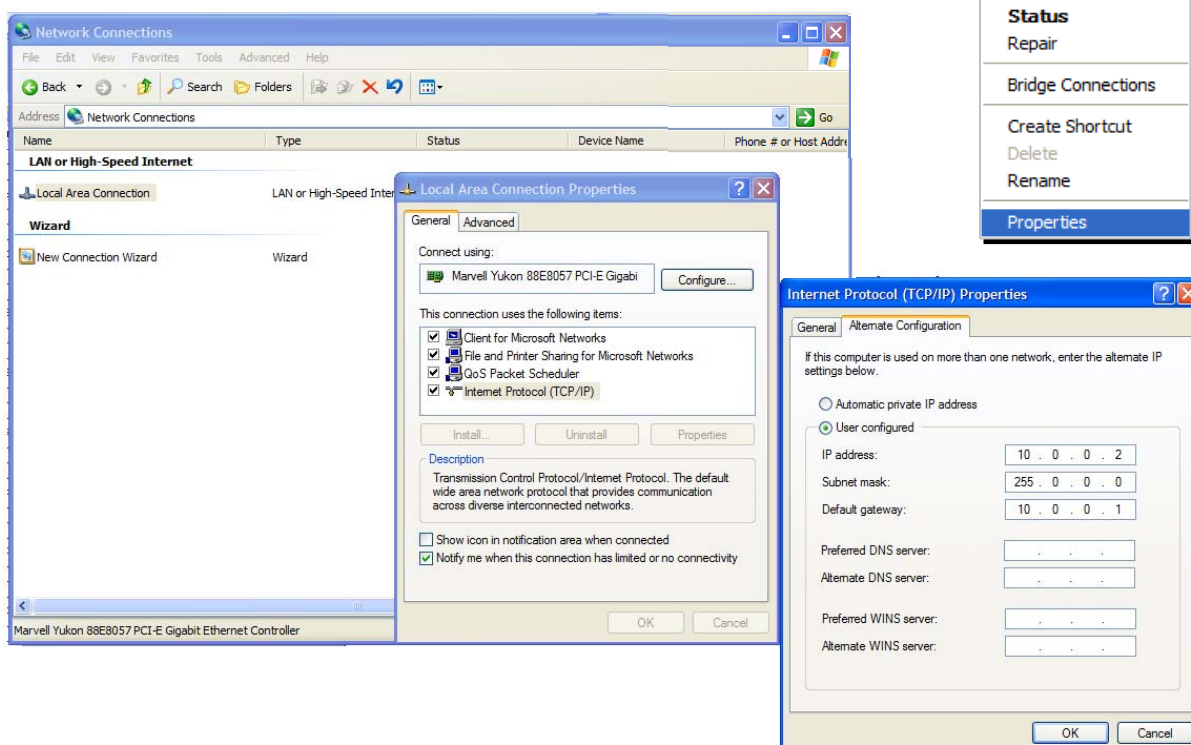
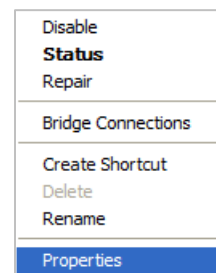
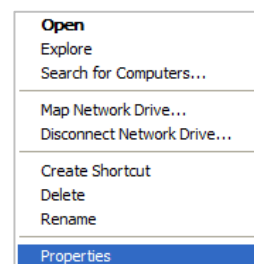
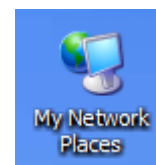
Configuring the IP address for the Ethernet Gateway

Initial configuration of the Ethernet Gateway requires setting the IP address for the WAN interface. To do this, you must connect to the “Configuration port” using a suitable cable. If you are connecting directly between a PC or Laptop and the Ethernet Gateway card, you must use a cross-over cable.

If you are connecting via a LAN via a switch or a hub, a standard Ethernet cable is needed.

In order for the PC to be able to connect to the Ethernet Gateway configuration interface, you must configure your PC for the correct subnet. The steps required are listed below:

1. Right-click on the Desktop’s *My Network Place*’s icon.
2. Select *Properties* from the shortcut menu.
The *Network Connections* window will open.
3. Select the *Local Area Connection*, and then Right-click to bring up its shortcut menu.
4. Select *Properties*, and the *Local Area Connections Properties* dialog box will open.
5. Click once on the *Internet Protocol (TCP/IP)* item in the list, and select the *Properties* button.
6. Select the *Alternate Configuration* tab, and then choose the *User configured* radio button on that page.
7. Enter the configuration numbers exactly as shown in the illustration below.





Configuration Steps:

1. Connect a computer to the configuration port on the Ethernet Gateway using an appropriate cable.
2. Using an appropriate Web Browser, enter the IP address 10.0.0.1 into the browser window, and connect to the Gateway.
3. If the connection is successful, the following home page will appear.

PERTRONIC
Pertronic Industries Ltd
Advanced Automatic Fire Detection Systems

HOME PAGE Welcome to the **Ethernet Gateway** configuration page.

NETWORK SETUP You may change basic network configuration parameters using this web interface.

DNS SETUP For any additional questions, comments or concerns please see the contact page.

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

a. **Network Setup**

Select this option from the Home page—see boxed selection above.
The following page will appear:

PERTRONIC
Network Setup

HOME PAGE

NETWORK SETUP

DNS SETUP

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

Hostname

IP Address

Netmask 255.255.255.0

Gateway

Enter the appropriate information and click “Update.”

b. **TCP Port**

The default TCP Port is 9034.



c. **DNS Setup**

Select the 2nd option from the Home page—see boxed selection below.

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NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

The following page will appear.

PERTRONIC

DNS Setup

HOME PAGE

NETWORK SETUP

DNS SETUP

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

Domain Name

Server 1

Server 2

Server 3

Enter the appropriate information and click “Update.”



d. **NTP Setup**

Select the 3rd option from the Home page—see boxed selection below.

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DNS SETUP For any additional questions, comments or concerns please see the contact page.

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

The following will appear (with your own date and time).

PERTRONIC

NTP Setup

HOME PAGE Date **Thu Oct 28 05:28:41 EST 2010**

NETWORK SETUP NTP Server

DNS SETUP

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

Enter the appropriate information and click “Update.”



e. **Time Zone Setup**

Select the 4th option from the Home page—see boxed selection below.

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DNS SETUP For any additional questions, comments or concerns please see the contact page.

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

The following will appear.

PERTRONIC

HOME PAGE

NETWORK SETUP

DNS SETUP

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

Current time zone is **Global NZ: NZST-12NZDT,M9.5.0,M4.1.0/3**

Select new time zone

Global CET Update

Africa
America
Antarctica
Arctic
Asia
Atlantic
Australia
Brazil
Canada
Chile
Etc
Europe
Global
Indian
Mexico
Mideast
Pacific
US

CET
CST6CDT
Cuba
EET
Egypt
Eire
EST
EST5EDT
GB
GB-Eire
GMT
GMT0
GMT-0
GMT+0
Greenwich
Hongkong
HST
Iceland
Iran
Israel
Jamaica
Japan
Kwajalein
Libya
MET
MST
MST7MDT
Navajo
NZ
NZ-CHAT

Select the appropriate time zone from the drop-down choices, and click “Update.”



f. **System Options**

Select the 5th option from the Home page—see boxed selection below.

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HOME PAGE Welcome to the **Ethernet Gateway** configuration page.

NETWORK SETUP You may change basic network configuration parameters using this web interface.

DNS SETUP For any additional questions, comments or concerns please see the contact page.

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

The following will appear.

System Options

HOME PAGE Press the button to reset the **Ethernet Gateway**.

NETWORK SETUP

DNS SETUP

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

Select “Reset,” and the following confirmation message will appear:

System Options

System has been reset. Please wait for the system to start-up.



g. **Input Options**

Select the 6th option from the Home page—see boxed selection below.

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HOME PAGE Welcome to the **Ethernet Gateway** configuration page.

NETWORK SETUP You may change basic network configuration parameters using this web interface.

DNS SETUP For any additional questions, comments or concerns please see the contact page.

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

The following will appear.

PERTRONIC

Gateway Input Setup

HOME PAGE

NETWORK SETUP

DNS SETUP

NTP SETUP

TIME ZONE SETUP

SYSTEM OPTIONS

INPUT OPTIONS

CONTACT US

Active State:

Input 1	open
Input 2	closed
Input 3	closed
Input 4	closed
Input 5	closed
Input 6	closed
Input 7	closed
Input 8	closed
Input 9	closed
Input 10	closed
Input 11	closed
Input 12	closed
Input 13	closed
Input 14	closed
Input 15	closed
Input 16	closed

Use the drop-down list of any of the gateway's inputs to change an active state from its current setting to *open* or *closed*. Click "Update" when completed.



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tech@pertronic.co.nz

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or

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Lower Hutt 5041

PERTRONIC INDUSTRIES LTD

INSTALLATION INSTRUCTIONS



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Copyright (C) yyyy name of author
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```
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type `show w'. This is free software, and you are welcome  
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for details.
```

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```
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interest in the program `Gnomovision'  
(which makes passes at compilers) written  
by James Hacker.
```

```
signature of Ty Coon, 1 April 1989  
Ty Coon, President of Vice
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