

NCM-W, NCM-F

Network Communications Modules

General

The **Network Communications Module (NCM)** provides PROTECTWELL Intelligent Fire Alarm Control Panels, and **NCA** Network Control Annunciators with a means to connect to **PTW•FIRE•NET**. Two types of NCM are available: **NCM-W** for connecting nodes with twisted-pair wire, and **NCM-F** for connecting nodes with fiber-optic cable.

NOTE: Do not mix NCM and High Speed (HS) NCM on the same system.

Features

- Compatible with standard and high speed PTW-FIRE-NET.
- Monitor four compatible PFN or HS-PFN nodes not including the Modbus Gateway node itself.
- Provide data such as event type, active/inactive, enabled/disabled, acknowledged/unacknowledged, device type, analog value (4-20ma modules only) and system troubles.
- Support reads of up to 100 registers at a time. Analog values can be read 10 registers at a time.
- Log diagnostic information.
- Send standard Modbus exception responses.
- Reduce configuration time by auto-discovering and mapping points.

MODBUS MASTERS COMPATIBLE

- The Modbus Gateway was designed to be compatible with standard Modbus/TCP masters.
- Support one-byte Unit IDs.
- Have configurable polling times.
- The Modbus Gateway supports one Modbus Master.

PANEL COMPATIBLE

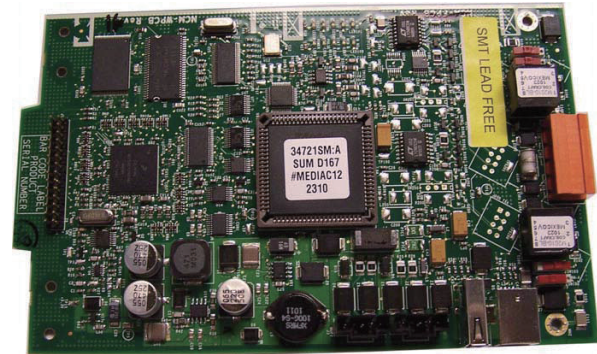
The Modbus Gateway was designed to be compatible with the following panel:

- PTW-3300

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL: S24647



System Architecture & Requirements

An Internet or Intranet IP network connection is required to configure the Modbus Gateway, and to connect it with Modbus clients. The Internet or Intranet IP network connection must meet the following requirements.

- Private or Business LAN.
- Static IP address required.
- Standard 100Base-T connection.
- Required Ports(s): 502.

REQUIRED EQUIPMENT

- MODBUS-GW-PFN Modbus Embedded Gateway.
- Network Control Module.
- PFN Network - Version 5.0 or above.

NETWORK COMPONENTS

- RJ45 to RJ45 standard Ethernet network cable-customer's internet or intranet connection to Modbus Gateway.
- PFN network-version 5.0 or above (sold separately).
- High Speed Network Communication Module: HS-NCM-W/SF/MF board-used to facilitate network communication between the Modbus Gateway and a High Speed PFN network or Network Communication Module: NCM-W/F board-used to facilitate network communication between the Modbus Gateway and an PFN network.
- Cabinet and Hardware (sold separately)
 - CAB-4 series cabinet.
 - CHS-4L chassis.

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CUSTOMER SUPPLIED EQUIPMENT

- Windows XP Professional with Internet Explorer running Java version 6 or higher.

