

EC660 - Intelligent addressable BACnet gateway



The BACnet gateway (EC660) is a CEA-709/BACnet gateway which maps CEA-709 network variables (NVs) to standard BACnet server objects. When ordered with this part code EC660, the LonWorks to BACnet address mapping is pre-loaded and ready for use with the Eaton Easichck board.

NVs are mapped to binary or intelligent addressable objects (inputs and outputs) according to CEN/TS 15231:2005. Scalar NVs are mapped to one BACnet object. Structured NVs are mapped to several BACnet objects, one for each member (members can be selected individually).

BMS systems can subscribe and synchronise to a set of BACnet server objects that are updated each time a status change occurs anywhere in the system.

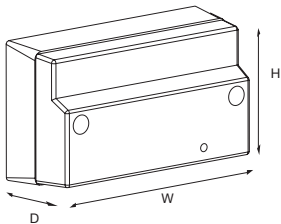
Features and benefits

- Fully compliant with ANSI/ASHRAE 135-2004 and ISO 16484-5
- Maps network variables to BACnet server objects based on CEN/TS 15231:2005
- Supports one BACnet MS/TP or BACnet/IP channel (configurable)
- Event-driven email notification
- BACnet/IP and BACnet/MSTP activity LED
- Easy to configure
- DIN rail mount
- Permits several Eaton panels to connect to 3rd party BACnet BMS system

BACnet addresses

Object name	Type	Description
System Events		
RxPanelData_panel_address	Analogue input	BACnet server objects that update simultaneously when a system event is generated by any panel in the system. BMS systems should take care to subscribe to each update event synchronously and not poll these objects.
RxPanelData_always_one	Binary input	
RxPanelData_event_code_interpretation	Binary input	
RxPanelData_event_code	Analogue input	
RxPanelData_device_address_or_group	Analogue input	
RxPanelData_current_reading	Analogue input	
RxPanelData_device_type_of_voltage	Analogue input	
RxPanelData_self_1_slave_2	Analogue input	
RxPanelData_high_low	Binary input	
RxPanelData_Location_Location_1...24	24x Analogue input	
System command action		
nvoReset_state	Binary output	Send reset command
nvoEvacuate_state	Binary output	N/A
nvoSilence_state	Binary output	N/A
Additional info		
Id_in	Analogue input	Panel ID of last event

Dimensions



H (mm)	W (mm)	D (mm)
60	105	86

Communication and automation functions

On the CEA-709 side, the EC660 supports either the ethernet/IP (IP-852) channel or the TP/FT-10 channel (configurable).

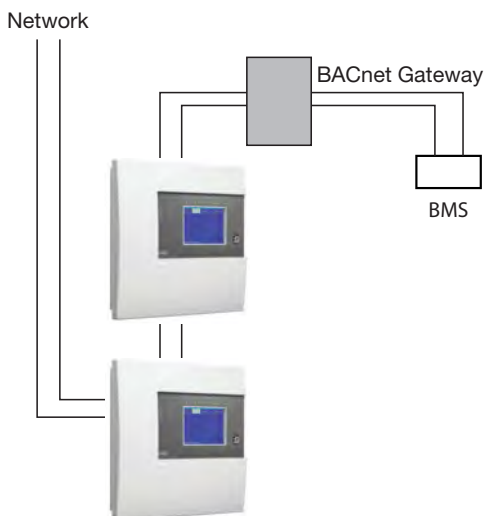
The BACnet server objects are accessible from the BACnet network where BACnet/IP or BACnet MS/TP is supported (configurable).

Additionally:

L-GATE supports basic automation functions such as alarming, scheduling, and trending for a seamless integration of CEA-709 applications in a BACnet network.

L-GATE features event driven email notifications for pre-defined actions. This way, the user is promptly informed about problems such as a specific status or an exceeded high-limit.

Typical system architecture



Network variables

Easy and fast mapping of network variables to BACnet server objects is guaranteed with the gateway configuration utility supplied with the unit. The software can run as a stand alone tool, connecting to the EC660 via FTP or as an LNS® plug-in, compatible with LNS® 3.0 and LNS®TE applications like NL220, ALEX and LonMaker®.

Catalogue numbers

Description	Code
BACnet gateway	EC660