Features

♦ Provides access to CEA-709 network variables over BACnet

♦ Fully compliant with CEA-709, EIA-852 and EN14908

♦ Fully compliant with ANSI/ASHRAE 135-2004 and ISO 16484-5

♦ Maps network variables to BACnet server objects based on CEN/TS 15231:2005

♦ Support of dynamically created network variables or static network variables

♦ Support of user defined NVs (UNVTs) and configuration properties (SCPTs, UCPTs)

♦ Initializes BACnet properties from NV description

♦ Supports BACnet client mappings (Write Property, ReadProperty, COV Subscription)

♦ Supports one TP/FT-10 or CEA-852 channel (configurable)

♦ Supports one BACnet MS/TP or BACnet/IP channel (configurable)

♦ Supports B-AAC (and in addition COV, Trending)

♦ Event-driven email notification

♦ Supports trending, scheduling, and alarming

♦ Supports up to 750 BACnet objects plus trend-log, schedule, and notification objects

♦ BACnet object configuration via LNS® "1-button configuration" tool supplied with the unit (runs as LNS® Plug-In or stand-alone tool)

♦ BACnet object configuration from XML file

♦ Built-in Web server for device configuration

♦ Channel Monitor Object accessible through NVs and BACnet server objects

♦ Network diagnostic LEDs

♦ CEA-709 status and activity LED

♦ Ethernet link and activity LED

♦ BACnet/IP and BACnet/MSTP activity LED

♦ 12-35 V DC / 12-24 V AC supply voltage

♦ 105 x 86 x 60 (L x W x H in mm) i.e. 6 TE

♦ DIN-rail or wall mountable

Description

The L-GATE is an CEA-709/BACnet gateway which maps CEA-709 network variables (NVs) to standard BACnet server objects. Which NVs are mapped to BACnet objects can be configured with an LNS® plug-in or stand-alone Gateway Configuration Utility. The NVs can be bound in the CEA-709 network or operated as "external data points" (polled), which are

supplied with address information by a configuration tool.

NVs are mapped to binary, analog, or multi-state objects (input, output, value) according to CEN/TS 15231:2005. All BACnet properties are automatically assigned with default values from the SNVT self-description. Scalar NVs are mapped to one BACnet object. Structured NVs are mapped to several BACnet object, one for each member (members can be selected individually). Each L-GATE can handle up to 750 BACnet Objects. Several devices can be installed in a network at the same time.

The created BACnet server objects are accessible from the BACnet network. In addition, the L-GATE also includes client functions. For each server object a "client mapping" can be defined. These mappings specify another BACnet object on the network where the L-GATE shall read data from or write data to.

L-GATE supports basic management functions such as scheduling, alarming, and trending via corresponding BACnet objects. The user can create trendlogs, schedule and notification objects, which refer to any of the mapped BACet objects. This allows the L-GATE to provide trending data of one or more NVs, schedule NVs and create alarms based on NV conditions directly in BACnet. The L-GATE also provides a number of network statistics data points, which are available as NVs on the device and can be accessed through BACnet objects as well.

Order Information

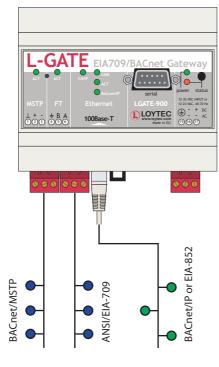| Order Number	Configuration
LGATE-900	1 x Ethernet, 1 x TP/FT-10, 1 x MS/TP

networks under control

Communication and Automation Functions

On the CEA-709 side, the LGATE-900 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 per pre-defined actions. This way, the user is promptly informt about problems like e.g. a specific status or an exceeded high-limit.
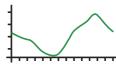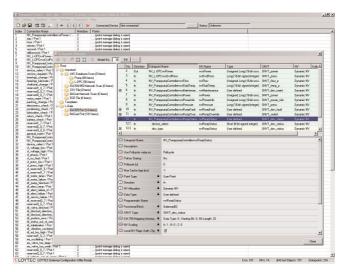

Easy and Fast Configuration

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 or as an LNS® plug-in, compatible with LNS® 3.0 and LNS® TE applications like NL220, ALEX and LonMaker®. Dynamically created network variables or static network-variables are supported as well as user defined NVs (UNVTs) and configuration properties (SCPTs, UCPTs).