DESCRIPTION

LGATE-900 is a CEA-709/BACnet gateway which allows seamless integration of systems using both communication standards by mapping CEA-709 network variables (NVs) to standard BACnet server objects. LGATE-900 is fully compliant with the standards CEA-709, CEA-852, and EN 14908 (LonMark system) as well as ASHRAE 135-2008 and ISO 16484-5. Analog, binary, and multistate BACnet objects (input/output) are mapped to NVs based on the CEN/TS 15231:2005 standard. BACnet properties are automatically configured with default values from the SNVT self-description. Scalar NVs are mapped to one BACnet object each. Structured NVs are mapped to several BACnet object, one for each member (members can be selected individually). Each LGATE-900 can handle up to 750 BACnet Objects. Several devices can be installed in a network at the same time.

LGATE-95x allows a smooth integration between LonMark Systems, BACnet networks, KNX networks, Modbus devices, M-Bus devices as well as ZigBee PRO wireless devices. Network variables are mapped to binary, analog, or multistate objects (input, output, value) according to the CEN/TS 15231:2005 standard. Data points can be manually or automatically generated across multiple protocols. In addition to analog, binary and multistate objects LGATE-95x supports alarming, scheduling and trending. They can be either connected through their Ethernet/IP ports to LonMark IP-852, BACnet/IP, KNXnet/IP and Modbus TCP simultaneously or to TP/FT-10, BACnet MS/TP channels, Modbus RTU and KNX TP1 respectively.

FEATURES

- **Fully compliant with ANSI/ASHRAE 135-2008 and ISO 16484-5 (BACnet)**
- **Fully compliant with CEA-709, CEA-852 and EN 14908 (LON)**
- **Built-in Web server for device configuration**
- **Support alarming, scheduling and trending**
- **Network diagnostic LEDs (LGATE-900)**
- **128x64 display with backlight (LGATE-95x)**
- **Local and remote access to information about device status and data points (LGATE-95x)**
- **DIN rail mountable**

NEW!

LOYTEC

LGATE 900

LGATE 95x

RoHS ☑ CE

SPECIFICATIONS

Supply Voltage	
LGATE-900	12 to 24 VAC / 50-60 Hz, 12-35 VDC
LGATE-95x	24 VAC / 50-60 Hz, 24 VDC
Supply Watts	
LGATE-900	3 Watts
LGATE-95x	2.5 Watts
Communication	
LGATE-900	Type CEA-709, BACnet, OPC XML-DA
LGATE-95x	Type CEA-709, BACnet, Modbus, OPC XML-DA, KNX, M-Bus
Channels	
LGATE-900	1x Ethernet (100Base-T) Lonmark IP-852, BACnet/IP, HTTP, FTP, 1x TP/FT-10, 1x BACnet MS/TP
LGATE-95x	2x Ethernet (100Base-T), Lonmark IP-852, BACnet/IP, HTTP, FTP, KNXnet/IP, Modbus TCP (Master or Slave); 1x TP/FT-10 (Lonmark System); 1x BACnet MS/TP; 1x Modbus RTU (Master or Slave); 1x EXT (alternatively for M-Bus Master EN13757-3 with L-MBUS20/80, KNX TP1 with LKNX-300)
Dimensions	
LGATE-900	4.21"W x 3.94"H x 2.36"D (10.7 x 10.0 x 6.0 cm)
LGATE-95x	6.26"W x 3.94"H x 2.95"D (15.9 x 10.0 x 7.5 cm)
Operating Temperature	32° to 112°F (0° to 50°C)
Operating Humidity	0-90% RH non-condensing
Weight	
LGATE-900	0.55 lbs (0.25 kg)
LGATE-95x	0.77 lbs (0.35 kg)
Approvals	CE, FCC
Warranty	2 years

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NETWORK & WIRELESS

NEW!

BACNET AND UNIVERSAL GATEWAYS
LGATE-9XX SERIES

WIRING

LGATE 900

Connections: BACnet/IP, Ethernet, ACT, ACT, RESET, LINK, ACT, POWER, 40, STATUS, BACnet/IP, Serial Terminal, RS-485, FT, Ethernet, POWER, Termination (L-Term), MS/TP Port, CEA-709, 10/100Base-T (RJ45), 12-35 VDC 12-24 VAC
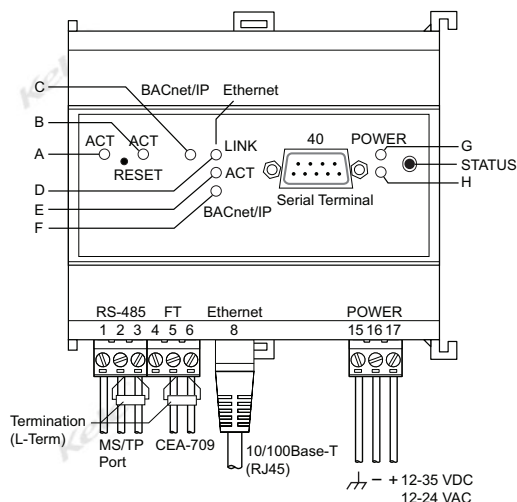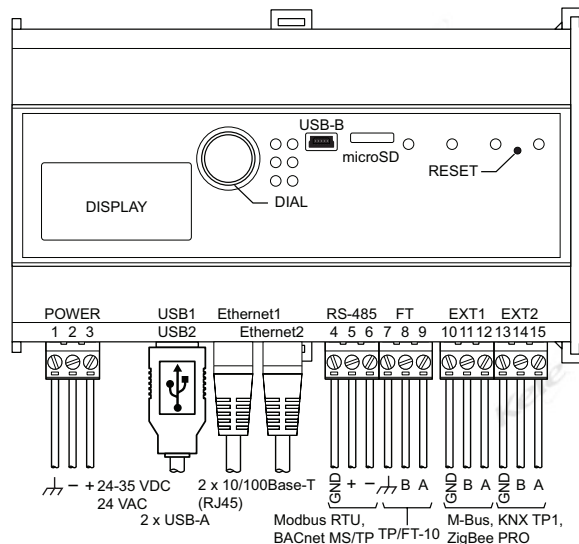
Connectors

MS/TP	1	Input GND
	2	Input + (B) non-inverting input
	3	Input − (A) inverting input
CEA-709	4	Input EARTH GND
	5	Input B
	6	Input A
Ethernet	8	10/100Base-T (RJ45)
POWER	15	Power supply input EARTH GND
	16	Power supply input MINUS
	17	Power supply input PLUS
		⚠ Do NOT connect to EARTH GND
SERIAL	40	EIA-232 (DB9 male)

Buttons

RESET	Reset
STATUS	Send "I AM" message

Status LEDs

A	Green flashing fast	Traffic on MS/TP port
B	Green flashing fast	Traffic on CEA-709 port
	Green flashing at 1 HZ	Port not commissioned
	Red permanent	CEA-709 port damaged
	Red flashing fast	Traffic overload on port
C	Green	IP port is fully functional
	Yellow	IP port functional but config. is not up-to-date
	Red	IP port is non-functional
	Flashing at 1 Hz	IP port is not commissioned
	OFF	IP port is not active
D	Green	Ethernet link
E	Green flashing	Ethernet traffic
F	Green	BACnet IP enabled
G	Green	Power
H	OFF	Normal operation

NOTE: If terminal 1 is not connected make a short between terminal 15 and 16, and connect to EARTH GND.

LGATE 95x

Connections: USB-B, microSD, RESET, DISPLAY, DIAL, POWER, USB1, USB2, Ethernet1, Ethernet2, RS-485, FT, EXT1, EXT2, 24-35 VDC 24 VAC, 2 x USB-A, 2 x 10/100Base-T (RJ45), Modbus RTU, BACnet MS/TP, TP/FT-10, M-Bus, KNX TP1, ZigBee PRO

Connectors

POWER	1	Power supply input EARTH GND
	2	Power supply input MINUS Can be connected to EARTH GND
	3	Power supply input PLUS ⚠ Do NOT connect to EARTH GND
Modbus BACnet MS/TP	4	Input GND
	5	Input +
	6	Input −
TP/FT-10	7	Input EARTH GND
	8	Input B
	9	Input A
EXT1 M-Bus, KNX TP1 ZigBee	10	Input GND
	11	Input B
	12	Input A
EXT2 M-Bus KNX TP1 ZigBee	13	Input GND
	14	Input B
	15	Input A

Connectors

USB1	USB-A	USB Host
USB2	USB-A	USB Host
USB-B	USB-B	PC
Ethernet1	RJ45	10/100Base-T
Ethernet2	RJ45	10/100Base-T
microSD	slot	microSD card max. 2 GB

Buttons

RESET	Reset
DIAL	Turn-and-Push Dial

Weidmüller
BLZP 5.08/03/180
0.2 - 2.5 mm²
7
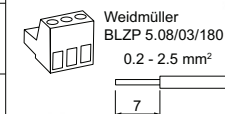
ORDERING INFORMATION

MODEL	DESCRIPTION
LGATE-900	Lonworks to BACNET LGATE Gateway
LGATE-950	Universal LGATE Gateway with one ext. port
LGATE-951	Universal LGATE Gateway with two ext. ports