L-VIS Touch Panel

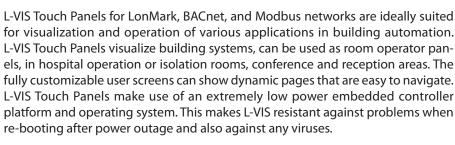
✓ BACnet

✓ Modbus M-Bus **CEA-709**

LVIS-3ME7-Gx/3ME12-A1/3ME15-A1/3ME15-Gx ✓ OPC

KNX Datasheet #89033419





L-VIS impresses with its timeless design, harmonic integration into modern and historical architecture, and with its extremely user friendly concept. The shallow installation depth and low thermal power loss allow mounting in almost any location.

































Different Sizes

L-VIS Touch Panels are available in the following variations:

LVIS-3ME7-Gx	7"Touch Display	800 x 480	262 144 colors		
	Frameless glass front and capacitive touch				
LVIS-3ME12-A1	12.1"Touch Display	800 x 600	262 144 colors		
	Aluminum frame with anodized finish				
LVIS-3ME15-A1	15"Touch Display	1024 x 768	262 144 colors		
	Alumnium frame with anodized finish				
LVIS-3ME15-Gx	15"Touch Display	1024 x 768	262 144 colors		
Frameless glass front and capacitive touch					

Dynamic Graphical Pages

The graphical pages may consist of multiple dynamic graphical controls that show the current plant status in real time. It is also possible to access decentralized schedules, alarm servers, or trends. The graphical projects are designed with the L-VIS/L-WEB configuration tool free of charge. Without any know-how in HTML or Java, user specific graphical pages can be created. Dynamic information is shown through value or text controls, changing symbols, bar charts, trend views, alarm and event lists, or schedule controls. The L-VIS/L-WEB configuration tool allows for using most of the pixel graphic formats (GIF, JPG, BMP, TIFF, PNG, MNG, ICO), vector graphics (SVG) and alpha blending.

Playback of Audio Files and Streams

The L-VIS Touch Panel supports the playback of stereo MP3, WAV, and MP3 streams (for example webradio). The playback will be started or stopped by the respective action object. The action object is linked to one of the available audio files or to the URL of an MP3 stream. When accessing a playback via LWEB-802 or LWEB-803, it will be executed locally on the client.

Automatic Page Generation

Pages including data point names and values, alarm views, schedules, or trends can be created automatically by the L-VIS/L-WEB configuration tool. This significantly reduces engineering time and cost.

Connectivity and Data Points

The L-VIS Touch Panels support connectivity to LonMark Systems and BACnet networks. In addition, the Touch Panels provide communication to Modbus either as Master or Slave. For this purpose, Modbus TCP is supported exclusively and Modbus RTU is available via the RS-485 terminal.

L-VIS Touch Panels communicate with LonMark Systems via IP-852 (Ethernet/IP) or TP/FT-10 channels. The integrated remote network interface (Ethernet/IP) provides remote access to the TP/FT-10 channel for configuration, service and maintenance purposes.

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LVIS-3ME7-Gx/3ME12-A1/3ME15-A1/3ME15-Gx

In addition, the L-VIS Touch Panels provide connectivity to Modbus TCP via Ethernet/IP.

BACnet networks are connected via BACnet/IP or BACnet MS/TP. The L-VIS Touch Panels implement the BACnet Building Controller (B-BC) profile. They include a fully featured built-in BACnet/IP to MS/TP router with BBMD (BACnet Broadcast Management Device) and slave proxy functionality.

Math objects can calculate any kind of formula using data points available on the device. The resulting data point value can then be either shown on the page or provided via an output Network Variable. Network Variables are automatically mapped to OPC data points that can be accessed via web services.

The L-VIS devices are equipped with two Ethernet ports. It can either be configured to use the internal switch to interconnect the two ports or every port is configured to work in a separate IP network.

When the Ethernet ports are configured for two separate IP networks, one port can be connected for instance to a WAN (Wide Area Network) with enabled network security (HTTPS) while the second port can be configured to be connected to an insecure network (LAN) where the standard building automation protocols like BACnet/IP, LON/IP, or Modbus TCP are present. These devices also feature firewall functionality of course to isolate particular protocols or services between the ports.

Using the internal switch, a daisy chained line topology of up to 20 devices can be built, which reduces costs for network installation. The IP switch also allows the setup of a redundant Ethernet installation (ring topology), which increases reliability. The redundant Ethernet topology is enabled by the Rapid Spanning Tree Protocol (RSTP), which is supported by most managed switches.

The L-VIS devices provide fully featured AST™ functionality (Alarming, Scheduling, and Trending) and can be integrated perfectly into the L-WEB Building Management System.

Features

- · High resolution TFT touch display with dimmable backlight
- · Anodized aluminum front frame or frameless glass front and capacitive touch (LVIS-3ME7-Gx/LVIS-3ME15-Gx)
- · Flush-mounting in combination with the mounting frame
- · Stores customized graphical pages
- · Visualization of customized graphical pages through built-in touch panel, LWEB-900 (building management), and LWEB-802/803
- Device configuration and graphical page creation with the L-VIS/L-WEB configuration tool free of charge
- Supports all popular graphic file formats such as GIF, JPG, BMP, TIFF, PNG, MNG, ICO
- · Support of SVG vector graphics
- · Supports alpha blending
- Supports popular font types such as TrueType, Type-1, BDF, PCF, and OTF
- · Supports Unicode text
- · Built-in OPC UA and OPC XML-DA server
- · Built-in OPC XML-DA client
- Dual switched or separated Ethernet ports
- Alarming, Scheduling, and Trending (AST™)
- · Event-driven e-mail notification
- · Math objects to execute mathematical operations on data points

- · Compliant with CEA-709, CEA-852, and ISO/IEC 14908 Standard (LonMark System)
- Supports CEA-709 TP/FT-10 or IP-852 (Ethernet/IP)
- Support of dynamically created network variables or static network variables
- Support of user-defined NVs (UNVTs) and Configuration Properties (SCPTs, UCPTs)
- · Remote Network Interface (RNI) with 2 MNI devices
- Compliant with ANSI/ASHRAE 135-2012 and ISO 16484-5:2012 standard
- · Supports BACnet MS/TP and BACnet/IP
- **BACnet Client Function (Write Property,** Read Property, COV Subscription)
- **BACnet Client Configuration with configuration** tool (scan and EDE import)
- **B-BC (BACnet Building Controller)**
- Integrated BACnet/IP to BACnet MS/TP Router
- BBMD (BACnet Broadcast Management Device)
- Modbus TCP and Modbus RTU (Master or Slave)
- Integrated web server for device configuration and monitoring data points
- · Access to network statistics
- Configurable via Ethernet/IP or TP/FT-10
- · Playback of audio files and streams
- Supports WLAN through LWLAN-800 Interface

L-IOB

L-INX

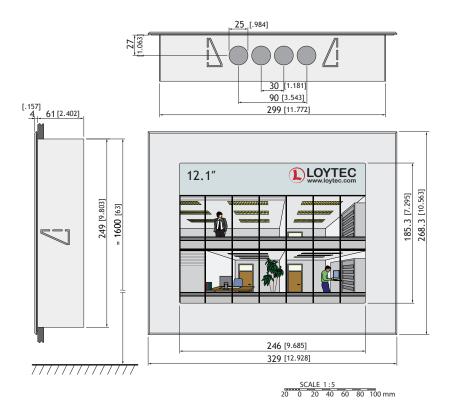
LVIS-3ME7-Gx/3ME12-A1/3ME15-A1/3ME15-Gx

Specifications					
Туре	LVIS-3ME7-Gx	LVIS-3ME12-A1	LVIS-3ME15-xx		
Screen size	7" (178 mm)	12.1" (307 mm)	15" (381 mm)		
Dimensions (mm)	223.5 x 162 x 65 (L x W x H), DIM004	329×268.3×65 (LxWxH), DIM002	394x318x65 (LxWxH), DIM003		
Dimensions cut-out (mr	m) 195 x 143 x 61 (LxWxH)	300 x 250 x 61 (LxWxH)	355 x 295 x 61 (LxWxH)		
Display resolution	800 x 480, 262 144 colors	800 x 600, 262 144 colors	1024x 768, 262 144 colors		
Interfaces	2 x Ethernet (100Base-T), Switch, OPC UA (server) and OPC XML-DA (server, client), LonMark IP-852, BACnet/IP, Modbus TCP (Master or Slave), HTTP, FTP, SSH, HTTPS, SMTP, NTP, VNC 1 x TP/FT-10 1 x RS-485 (ANSI TIA/EIA-485): BACnet MS/TP or Modbus RTU (Master or Slave) 2 x Digital Input 2 x USB-A: (LVIS-3ME15-Gx only 1 x USB-A) WLAN (needs LWLAN-800) 1 x USB-B (PC), speaker, audio output				
Remote Network Interfa	<u> </u>				
Power supply	24 V DC ±10 %, 2.5 W, backlight on: 5 W	24 V DC ±10 %, 4 W, backlight on: 10 W or 85-240 V AC, 7 W, backlight on: 13 W	24 V DC ±10 %, 4 W, backlight on: 10 W or 85-240 V AC, 7 W, backlight on: 13 W		
Operating conditions	+10 °C to 40 °C, 10-90 % RH, non co	ondensing			
Degree of protection	Front: IP54 / back: IP10				
Tools	L-VIS/L-WEB Configurator				
Resource limits					
OPC data points	10000	BACnet calendar objects	25		
Modbus data points	2000	BACnet scheduler objects	100 (64 data points per object)		
VNC clients	16	BACnet notification classes	32		
Network variables (NVs)	1 000	E-mail templates	100		
Alias NVs	1 000	Math objects	2000		
Address table entries					
	524 (non-ECS mode: 15)	Alarm logs	100		
LonMark Calendars	524 (non-ECS mode: 15) 1 (25 calendar patterns)	Alarm logs Trend logs	100 512 (4000 000 entries, ≈ 60 MB)		
LonMark Calendars LonMark Schedulers		-			
	1 (25 calendar patterns)	Trend logs	512 (4000000 entries, ≈ 60 MB)		
LonMark Schedulers	1 (25 calendar patterns) 100	Trend logs Total trended data points	512 (4000 000 entries, ≈ 60 MB) 512		
LonMark Schedulers LonMark Alarm Servers BACnet server objects	1 (25 calendar patterns) 100 1	Trend logs Total trended data points Connections (Local/Global)	512 (4000000 entries, ≈ 60 MB) 512 2000/250		
LonMark Schedulers LonMark Alarm Servers BACnet server objects Order number	1 (25 calendar patterns) 100 1 512	Trend logs Total trended data points Connections (Local/Global) Number of L-WEB clients	512 (4000000 entries, ≈ 60 MB) 512 2000/250 32 (simultaneously)		
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LonMark Schedulers LonMark Alarm Servers BACnet server objects Order number LVIS-3ME7-G1 COLUMN	1 (25 calendar patterns) 100 1 512 Product description EEA-709, BACnet, and Modbus Touch Pan	Trend logs Total trended data points Connections (Local/Global) Number of L-WEB clients el 7", frameless glass front and capaci	512 (4000 000 entries, ≈ 60 MB) 512 2000/250 32 (simultaneously) tive touch, silver tive touch, black		
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LonMark Schedulers LonMark Alarm Servers BACnet server objects Order number LVIS-3ME7-G1 CUIS-3ME7-G2 LVIS-3ME12-A1 LVIS-3ME15-A1	1 (25 calendar patterns) 100 1 512 Product description EA-709, BACnet, and Modbus Touch Panel EA-709, BACnet, and Modbus Touch Panel EA-709, BACnet, and Modbus Touch Panel	Trend logs Total trended data points Connections (Local/Global) Number of L-WEB clients el 7", frameless glass front and capaci el 7", frameless glass front and capaci el 12.1", aluminum frame with anodize	512 (4000 000 entries, ≈ 60 MB) 512 2000/250 32 (simultaneously) tive touch, silver tive touch, black ted finish d finish		
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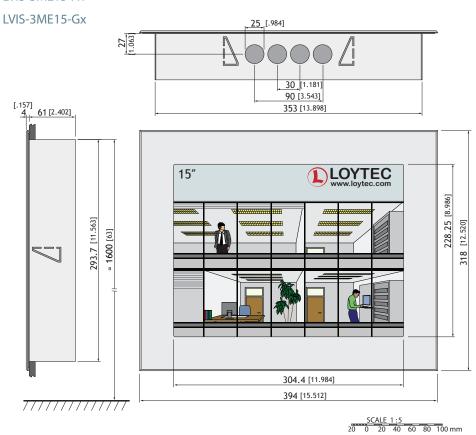
L-DALI

Dimensions of the devices in mm and [inch]

DIM002 LVIS-3ME12-A1



DIM003 LVIS-3ME15-A1



L-VIS, L-STAT

Dimensions of the devices in mm and [inch]

