

Date: Apr 16, 2019
Vendor Name: LOYTEC electronics GmbH
Product Name: BACnet LC touch panel
Product Model Number: LVIS-ME2xx/3ME_x
Applications Software Version: N/A
Firmware Revision: 7.0.x
BACnet Protocol Revision: 135-2012 (1.12)

Product Description:

This product is a BACnet enabled, freely configurable LC touch panel. It allows visualizing and changing the values of BACnet properties on the high-resolution color LC touch display. The touch panel offers easy navigation through the menu structure and is also used to set temperatures, select light scenarios, move sun blinds, etc. The L-VIS configuration tool supplied with the unit is used to create the menu structure and design graphical pages, which can be downloaded into L-VIS via the network connection. The LC touch panel shows numbers, text, bar graphs, symbols, graphics, trend logs, and many other items in a clear way.

Available models:

LVIS-3ME7	7"	800x480 touch display
LVIS-3ME12	12"	800x600 touch display
LVIS-3ME15	15"	1024x768 touch display

BACnet Standardized Device Profile (Annex L):

BACnet Advanced Application Controller (B-AAC)

Note that this device can also act as a router, BBMD, and slave proxy when connected to BACnet IP and MS/TP at the same time.

BACnet Interoperability Building Blocks Supported (Annex K):

Data Sharing – ReadProperty-A (DS-RP-A)
Data Sharing – ReadProperty-B (DS-RP-B)
Data Sharing – ReadPropertyMultiple-A (DS-RPM-A)
Data Sharing – ReadPropertyMultiple-B (DS-RPM-B)
Data Sharing – WriteProperty-A (DS-WP-A)
Data Sharing – WriteProperty-B (DS-WP-B)
Data Sharing – WritePropertyMultiple-A (DS-WPM-A)
Data Sharing – WritePropertyMultiple-B (DS-WPM-B)
Data Sharing – COV-A (DS-COV-A)
Data Sharing – COV-B (DS-COV-B)
Data Sharing – COVP-A (DS-COVP-A)
Data Sharing – COVP-B (DS-COVP-B)
Data Sharing – COV Unsolicited-B (DS-COVU-B)
Alarm and Event – Notification-A (AE-N-A)
Alarm and Event – Notification Internal-B (AE-N-I-B)
Alarm and Event – ACK-A (AE-ACK-A)
Alarm and Event – ACK-B (AE-ACK-B)
Alarm and Event – Alarm Summary-A (AE-ASUM-A)
Alarm and Event – Alarm Summary-B (AE-ASUM-B)
Alarm and Event – Alarm Enrollment Summary-A (AE-ESUM-A)
Alarm and Event – Alarm Enrollment Summary-B (AE-ESUM-B)
Alarm and Event – Alarm Information-A (AE-INFO-A)
Alarm and Event – Alarm Information-B (AE-INFO-B)
Scheduling – A (SCHED-A)
Scheduling – Internal-B (SCHED-I-B)
Scheduling – External-B (SCHED-E-B)

Trending – Viewing and Modifying Trends Internal-B (T-VMT-I-B)
Trending – Viewing and Modifying Trends External-B (T-VMT-E-B)
Trending – Automated Trend Retrieval-B (T-ATR-B)
Device Management – DynamicDeviceBinding-A (DM-DDB-A)
Device Management – DynamicDeviceBinding-B (DM-DDB-B)
Device Management – DynamicObjectBinding-B (DM-DOB-B)
Device Management – TimeSynchronization-A (DM-TS-A)
Device Management – TimeSynchronization-B (DM-TS-B)
Device Management – UTCTimeSynchronization-A (DM-UTC-A)
Device Management – UTCTimeSynchronization-B (DM-UTC-B)
Device Management – AutomaticTimeSynchronization-A (DM-ATS-A)
Device Management – DeviceCommunicationControl-B (DM-DCC-B)
Device Management – ReinitializeDevice-B (DM-RD-B)
Device Management – Backup and Restore (DM-BR-B)
Device Management – List Manipulation-A (DM-LM-A)
Device Management – List Manipulation-B (DM-LM-B)
Device Management – Restart A (DM-R-A)
Device Management – Restart B (DM-R-B)
Network Management – Connection Establishment-A (NM-CE-A)

Segmentation Capability:

Segmented requests supported, window size: 4
Segmented responses supported, window size: 4

Standard Object Types Supported:

For all the objects below, the following apply if not stated otherwise:

- 1) Does not support the CreateObject and DeleteObject service
- 2) Properties Object_Name, Description support up to 64 characters
- 3) Includes the required properties as specified for the object class
- 4) All commandable objects support the Priority_Array and Relinquish_Default with 16 freely usable priorities
- 5) All analog, binary, multi-state objects support COV subscriptions
- 6) No additional writeable properties exist
- 7) No proprietary properties exist
- 8) No range restrictions exist
- 9) Analog, binary, and multi-state objects are limited to 1000 objects in total

Device Object

List of optional properties supported:

Location, Description, Max_Segments_Accepted, APDU_Segment_Timeout, Max_Master¹, Max_Info_Frames¹, Active_COV_Subscriptions, Configuration_Files, Last_Restor_Time, Backup_Failure_Timeout, Local_Time, Local_Date, UTC_Offset, Daylight_Saving_Status, Time_Synchronization_Recipients, UTC_Time_Synchronization_Recipients, Time_Synchronization_Interval, Align_Intervals, Interval_Offset, Slave_Proxy_Enable, Manual_Slave_Address_Binding, Auto_Slave_Discovery, Slave_Address_Binding

Analog Input, Analog Output, Analog Value

List of optional properties supported:

Description, Reliability, Min_Pres_Value, Max_Pres_Value, COV_Increment, Time_Delay², Notification_Class², Low_Limit², High_Limit², Deadband², Limit_Enable², Event_Enable², Acked_Transitions², Event_Time_Stamps²

Binary Input, Binary Output, Binary Value

¹ If device is operated with BACnet MS/TP enabled.

² If intrinsic reporting is enabled for this object.

List of optional properties supported:

Description, Reliability, Active_Text, Inactive_Text, Time_Delay², Notification_Class², Alarm_Value², Feedback_Value², Event_Enable², Acked_Transitions², Notify_Type², Event_Time_Stamps²

Multi-State Input, Multi-state Output, Multi-State Value*List of optional properties supported:*

Description, Reliability, State_Text, Time_Delay², Notification_Class², Alarm_Values², Fault_Values², Feedback_Values², Event_Enable², Acked_Transitions², Notify_Type², Event_Time_Stamps²

Large Analog Value, Integer Value, Positive Integer Value*List of optional properties supported (as applies):*

Description, Out_Of_Service, Event_State, Reliability, COV_Increment, Time_Delay, Notification_Class, Low_Limit, High_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts

CharacterString Value, OctetString Value*List of optional properties supported (as applies):*

Description, Out_Of_Service, Reliability

Notification Class Object, Schedule Object, Calendar Object*List of optional properties supported:*

Description, Weekly_Schedule, Exception_Schedule

Object limit: 32 Notification Class, 100 Schedule, 25 Calendar objects.

Trend Log Object*List of optional properties supported:*

Description, Start_Time, Stop_Time, Log_DeviceObjectProperty, Log_Interval, COV_Resubscription_Interval, Client_COV_Increment, Notification_Threshold, Records_Since_Notification, Last_Notify_Record, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps

Object limit: 100 Trend Log objects. There is a limit of 4,000,000 log records in total.

File Object*List of optional properties supported:*

Object limit: 1 File object. This object is used for configuration backup and restore.

Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800
- MS/TP slave (Clause 9), baud rate(s):
- Point-To-Point, EIA 232 (Clause 10), baud rate(s):
- Point-To-Point, modem, (Clause 10), baud rate(s):
- LonTalk, (Clause 11), medium:

Device Address Binding:

Static device address binding is supported.

Networking Options:

- Router, Clause 6 – MS/TP to BACnet/IP
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
- Registrations by Foreign Devices

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> ANSI X3.4/UTF-8 | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input checked="" type="checkbox"/> ISO 8859-1 |
| <input checked="" type="checkbox"/> ISO 10646 (UCS-2) | <input type="checkbox"/> ISO 10646 (UCS-4) | <input type="checkbox"/> JIS C 6226 |

Additional Information and Contact:

Further Information, a detailed User Manual and firmware updates can be obtained from our website
<http://www.loytec.com>.

For information and technical support, please contact us at the following address:

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