



NC-LVIS3ME Series

Communicating Touchscreen Displays



Overview

NC-LVIS3ME Touch Panels for LonMark, BACnet, and Modbus networks are ideally suited for visualization and operation of various applications in building automation. The fully customizable user screens can show dynamic pages that are easy to navigate. NC-LVIS3ME Touch Panels make use of an extremely low power embedded controller platform and operating system making the NC-LVIS3ME resistant against problems when re-booting after power outage and also against any viruses.

Applications

- ☐ Visualize building systems
- ☐ Room operator panels
- ☐ Hospital or isolation rooms
- ☐ Conference rooms
- ☐ Reception area

Features & Benefits

- ☐ High resolution TFT touch display with dimmable backlight
- ☐ Flush-mounting in combination with the mounting frame
- ☐ Stores customized graphical pages
- ☐ Supports popular font types such as TrueType, Type-1, BDF, PCF, and OTF
- ☐ Support of SVG vector graphics

Model Selection

NC-LVIS-3ME7-G1	CEA-709, BACnet, and Modbus Touch Panel 7", frameless glass front and capacitive touch, silver
NC-LVIS-3ME7-G2	CEA-709, BACnet, and Modbus Touch Panel 7", frameless glass front and capacitive touch, black
NC-LVIS-3ME12-A1	CEA-709, BACnet, and Modbus Touch Panel 12.1", aluminum frame with anodized finish
NC-LVIS-3ME15-A1	CEA-709, BACnet, and Modbus Touch Panel 15", aluminum frame with anodized finish
NC-LVIS-3ME15-G1	CEA-709, BACnet, and Modbus Touch Panel 15", frameless glass front and capacitive touch, silver
NC-LVIS-3ME15-G2	CEA-709, BACnet, and Modbus Touch Panel 15", frameless glass front and capacitive touch, black
NC-LVIS-3ME15-G3	CEA-709, BACnet, and Modbus Touch Panel 15", frameless glass front and capacitive touch, white

Accessories

NC-LVIS-FRAME7	Mounting frame for 7" Touch Panels
NC-LVIS-FRAME12	Mounting frame for 12.1" Touch Panels
NC-LVIS-FRAME15	Mounting frame for 15" Touch Panels

Product Specifications

Screen Size

- ☐ NC-LVIS-3ME7-Gx _____ 7" (178 mm)
- ☐ NC-LVIS-3ME12-Ax _____ 12.1" (307 mm)
- ☐ NC-LVIS-3ME15-xx _____ 15" (381 mm)

Dimensions (mm)

- ☐ NC-LVIS-3ME7-Gx _____ 223.5 x 162 x 65 (L x W x H), DIM035
- ☐ NC-LVIS-3ME12-Ax _____ 329 x 268.3 x 65 (L x W x H), DIM002
- ☐ NC-LVIS-3ME15-xx _____ 394 x 318 x 65 (L x W x H), DIM003

Dimensions cut-out (mm)

- ☐ NC-LVIS-3ME7-Gx _____ 195 x 143 x 61 (L x W x H)
- ☐ NC-LVIS-3ME12-Ax _____ 300 x 250 x 61 (L x W x H)
- ☐ NC-LVIS-3ME15-xx _____ 355 x 295 x 61 (L x W x H)

Display resolution

- ☐ NC-LVIS-3ME7-Gx _____ 800 x 480, 262 144 colors
- ☐ NC-LVIS-3ME12-Ax _____ 800 x 600, 262 144 colors
- ☐ NC-LVIS-3ME15-xx _____ 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
- _____ 1 x Digital interface for up to 4 L-TEMP1 sensors
- _____ 2 x USB-A:
- _____ WLAN (needs LWLAN-800)
- _____ 1 x USB-B (PC), speaker, audio output

Product Specifications (cont'd)

Power Supply

☐ NC-LVIS-3ME7-Gx	24 V DC $\pm 10\%$, 2.5 W, backlight on: 5 W
☐ NC-LVIS-3ME12-Ax	24 V DC $\pm 10\%$, 4 W, backlight on: 10 W or 85-
☐ NC-LVIS-3ME15-xx	240 V AC, 7 W, backlight on: 13 W

Remote Network Interface 1 RNI with 2 MNI devices

Operating Conditions 10°C to 40°C (50°F to 104°F)

Relative Humidity 10 to 90% @ 50°C, non-condensing

Enclosure Rating:

☐ Front	IP54
☐ Back	IP10

Resource limits

OPC data points	10 000
Modbus data points	2 000
VNC clients	16
Network variables (NVs)	1000
Alias NVs	1000
Address table entries	524 (non-ECS mode: 15)
LonMark Calendars	1 (25 calendar patterns)
LonMark Schedulers	100
LonMark Alarm Servers	1
BACnet server objects	512
BACnet calendar objects	25
BACnet scheduler objects	100 (64 data points per object)
BACnet notification classes	32
E-mail templates	100
Math objects	2 000
Alarm logs	100
Trend logs	512 (4 000 000 entries, $\approx$ 60 MB)
Total trended data points	512
Connections (Local/Global)	2 000/250
Number of L-WEB clients	32 (simultaneously)

