

Field Control Layer Device

NVT70P

BACnet Touch Operator Display Panel

【Description】

NVT70P touch graphic display panel is a BACnet B-OD level operator display panel. It uses a 32 bit microprocessor, network speeds of up to 76.8K bps and used Bacnet MSTP protocol. Control/Graphic pages of NVT70P are down loaded by using AIRTEK BACsoft software. User can read data of any bacnet device on the network. User can either control multiple devices with a NVT70P or control a single device with multiple NVT70P.

【Features】

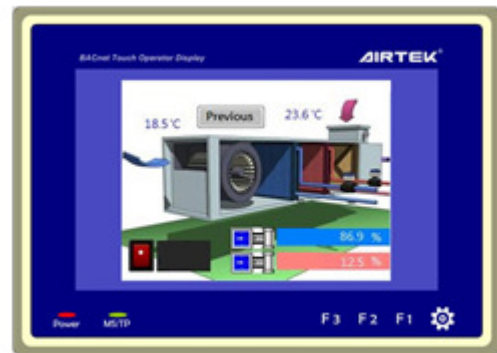
- BACnet B-OD control panel conforms ASHRAE BACnet MS/TP standard.
- 7.0" screen, 262K colors, touch screen TFT LCD, 800*480 pixel, setup with AIRTEK BACsoft software, can support up to 65,536 colors.
- Four configurable function keys (⚙️ + F1 + F2 + F3) function keys.
- Update firmware and upload graphic pages by using a Mini USB cable.
- 128M Bytes fonts and graphic memory. Actual number of pages depends on each page data size (Typically 24 pages).
- NVT70P can read the property of a BACnet device on the network. Properties can be logic, value, list, string, object, time, date, or list status of a bit string.
- Display incoming alarm notification messages from any device on the network. Most recent 80 messages will be stored in the message history.
- The panel can modify Calendar/Schedules that any B-AAC&B-BC device on the BACNET MS/TP network, compliant to SCHED-VM-A (BIBB - Scheduling-View and Modify-A)
- 10 password levels and 20 user passwords.
- Has a BACnet MS/TP network communication quality monitor function.
- Time synchronize function. Selectable to broadcast on the BACnet network.

【Specification】

Power Supply	: 24VAC/DC, 15VA (Do not use the 24VDC power supply provided by an Airtek Controller).
LCD Display	: 7.0", 262K colors, touch screen TFT LCD, 800*480 pixels.
Miniprocessor	: 32 bit microprocessor, 1M SRAM, 128M NAND Flash memory, 128M memory for fonts and user information.
MS/TP Net	: MS/TP RS-485 network, 9,600 to 76,800bps auto detect, Max. 1200M.
USB Port	: A mini USB port for upload firmware and information.
Clock	: A gold capacitor to run clock for 48 hours after power interrupted.
Keys	: Four function keys ⚙️ + F1 + F2 + F3. ⚙️ is system setting key. F1, F2, and F3 are function keys.
Buzzer	: One buzzer
Environment	: 0~70°C, 0~95%RH non-condense.
Certificate	: EMC Directive 89/336/EEC (European CE Mark).
BTL List	: BACnet B-OD

Accessory

HMI-LINKER : USB Setting cable(MiniUSB)



【Installation】

- For panel mounted, must cut a hole 197.6±0.5 mm (height) *137.1±0.5 mm (width) for the panel, It should have enough wiring space for power and network.
- Lock the fixed sheet iron by the screw then installs the controller and pushes down to fix it. Uninstall it by the reverse process.
- Use overall shielded RS485 data cable (Similar to Beldin 1306A).
- It is recommended to use an independent 24VAC/DC power supply for this device.
- Setup, upload firmware, and upload graphic display by using the BACsoft software and connect PC to NVT70P with USB2.0 to Mini USB cable (see Fig. 2).
- To install NVT70P on a MS/TP network, user should follow RS- 485 networks general wiring rule, use daisy chain configuration, do not use T or Star configuration. Use terminal resistors. NVT70P has onboard terminal resistors via dip switch connection (Only use if NVT70P is installed at end of Lan).
- Pay attention to avoid dust, condensate environmental element to prevent product damage.

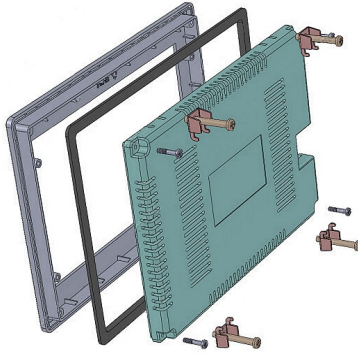


Fig. 1 Installation

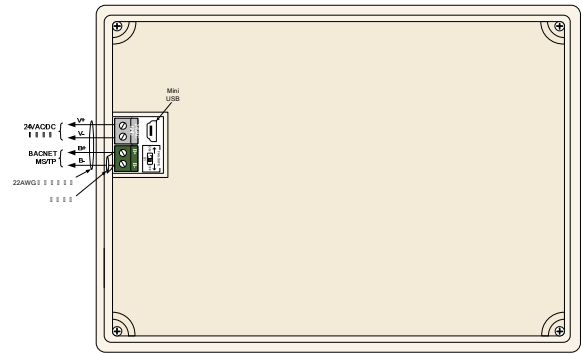
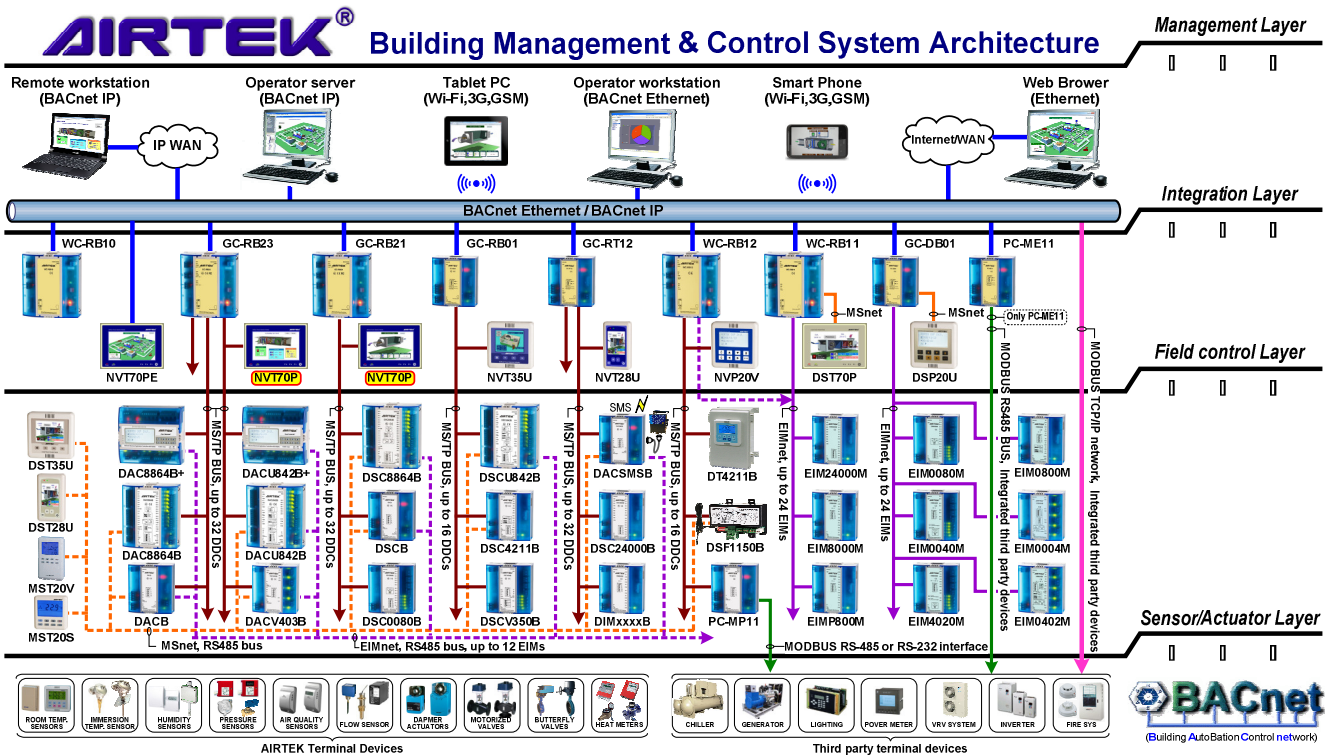
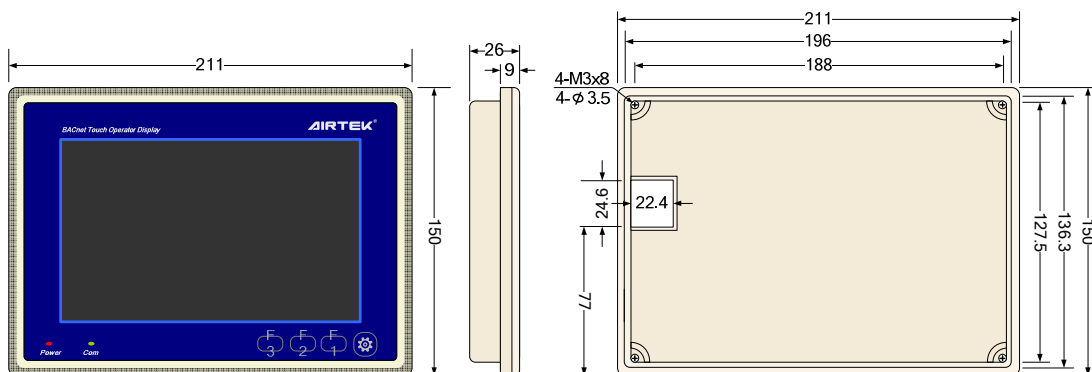


Fig. 2 NVT70P Wiring

【Network Architecture】



【Dimension】 Unit: mm



Please refer to <http://www.airtek.com.au> for the most recent updated information.