

Group LCD Control Panel

【Description】

NFC32V series is a one to one or one to many (Group Control) LCD fan coil unit control panel for the DFC series fan coil unit controllers. It uses a two-wire RS485 network communication, up to 32 DFC controllers can be connected to a network. It has a large-scale graphic back lit LCD screen. It allows the user to view, set, change each kind of control parameter values such as the indoor temperature value, temperature setting, air condition mode, fan speed, delay off timer and alarm messages.

【Features】

- 16 bit microprocessor, high precise operation.
- Two-wire communication network.
- Large-scale LCD display for temperature, set point, fan speed, air conditioning mode and abnormal state.
- A touch-button technology, with group and individual air-conditioning mode (automatic, air conditioning, heating, and air supply, etc.) with fan speed switching operation function (auto, high, medium and low speed, etc.).
- 0~24 hour power off timer, (time clock override).
- Operational key lock function of temperature units, time mode etc.
- Selectable real-time clock display function.
- Flash memory design, keeps memory for more than ten years without power.
- Included self-wakeup function (Watch Dog).

【Specification】

Model	A/C Mode	Fan Speed	Valve Position Indicator	Clock Display	Timer Shutdown	Transmission distance	Display Resolution
NFC32V	Auto/Cooling / Heating / fan	Auto/Hi/Med/Lo	Yes	Yes	0-24hr	1,200M	0.1℃

Power Supply : 5VDC, 35mA. (Power supplied by DFC controller.)

Microprocessor : 16 bit high speed processor.

FCnet Port : 2-wire MODBUS RTU RS-485 bus, communication speed 9,600 bps, max. transmission distance 1200 meters.

SCnet Port : 2-wire MODBUS RTU RS-485 bus, communication speed 9,600 bps, max. transmission distance 100 meters.

LCD Display : 45mm(W)*63mm(H) display size. It has dynamic graphic display with back light.

Hardware Clock : Real-time clock with capacitance power backup (ten years).

Control Range : 15~32℃ (59~89.6°F)

Decimal Scale : Parameter selection can be 0.1℃, 0.5℃, 1℃ three decimal scale.

Keypad : 8 operation buttons with key lock function.

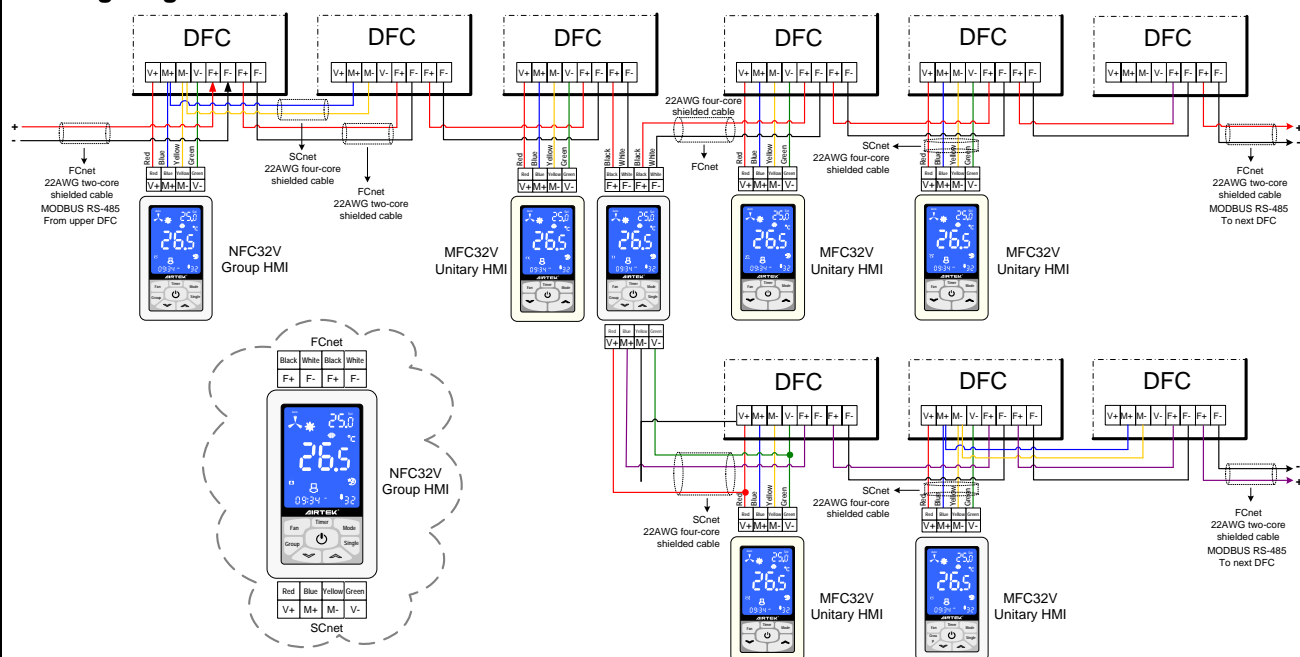
Environment : 0~70℃, 0~95%RH non-condensant.

【Installation】

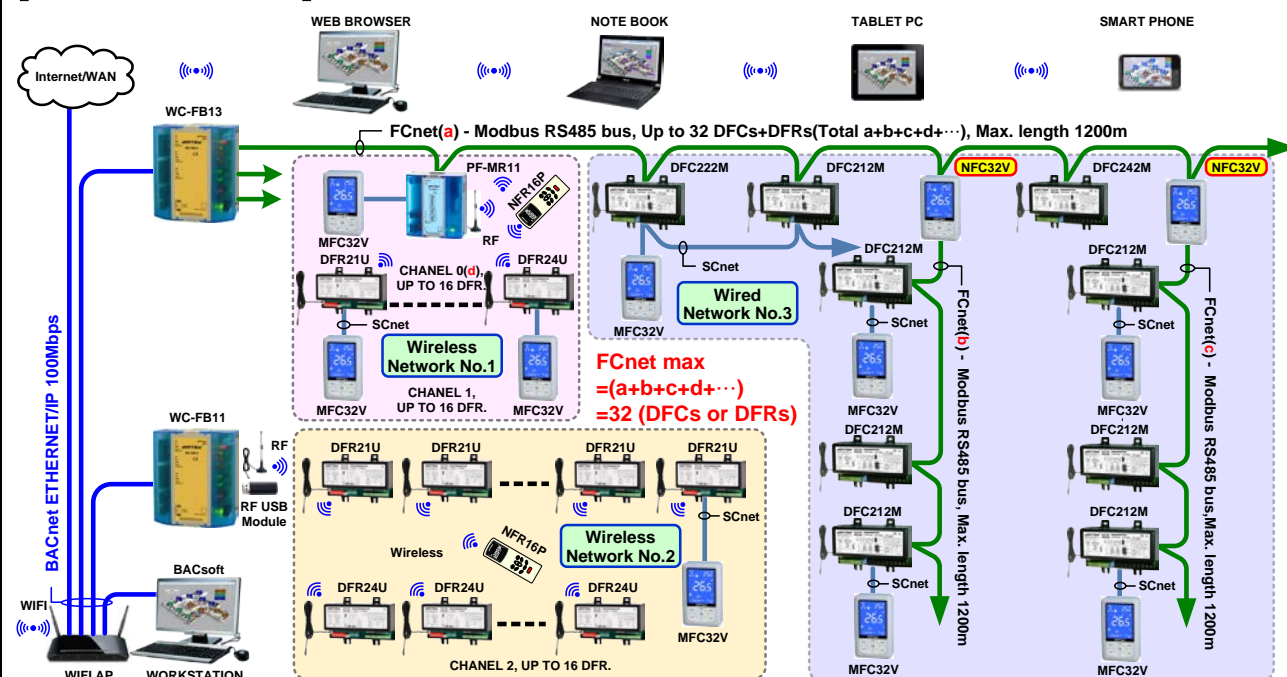
- Read and follow the installation instruction in this document to prevent damage to device.
- Check if this product meets your application requirement.
- Installer should be a trained and an experienced technician.
- Turn off power when installation to avoid electric shock or equipment damage.
- Please install this display panel located 1.2M above ground with good ventilation.
- Do not fix in a vibration, near radiant heat source, condensation or dusty environment.
- Recommend Beldin overall screened RS485 cable or equivalent. Do not mix with power cables.
- Connect the control panel and fan coil controller by follow the pin number and wire color in Figure 1 & 2.
- After completion of the wiring, fixe the bottom plate on the wall without twisting to prevent damage.



【Wiring Diagram】



【Network Architecture】



【Dimensions】 Unit : mm

