

# Field Control Layer Device

# MFC32V

## Unitary LCD Control Panel

### 【Description】

MFC32V series one to one LCD fan coil unit control panel is a special-purpose field operation man-machine interface. It has a large-scale graphic LCD with back light. It may facilitate the user to view settings, change and confirm each kind of control parameter value. For example 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, Easy for wiring.
- Large-scale LCD display for temperature value, setting value, fan speed, air conditioning mode and abnormal state.
- A touch-button technology, mode selection (auto-cool-heat) and fan speed (Auto-Lo-Med-Hi)
- Simple to set delay stop mode. 0~24 hour power off timer for typical override time clock setting.
- Operational key lock function of temperature units, time mode etc.
- Real-time clock display selectable view on/off.
- Flash memory design, retains memory for up to 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
<b>MFC32V</b>	Auto/Cooling / Heating / fan	Auto/Hi/Med/Lo	Yes	Yes	0-24hr	1,200M	0.1℃

**Power Supply** : 5VDC, 35mA. (Power sources supplied by DF. controller.)

**Microprocessor** : 16 bit high speed processor.

**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.

**Control Range** : 15~32℃ (59~89.6°F)

**Decimal Scale** : Selectable temperature display can be 0.1 ℃, 0.5 ℃, or 1 ℃ scale.

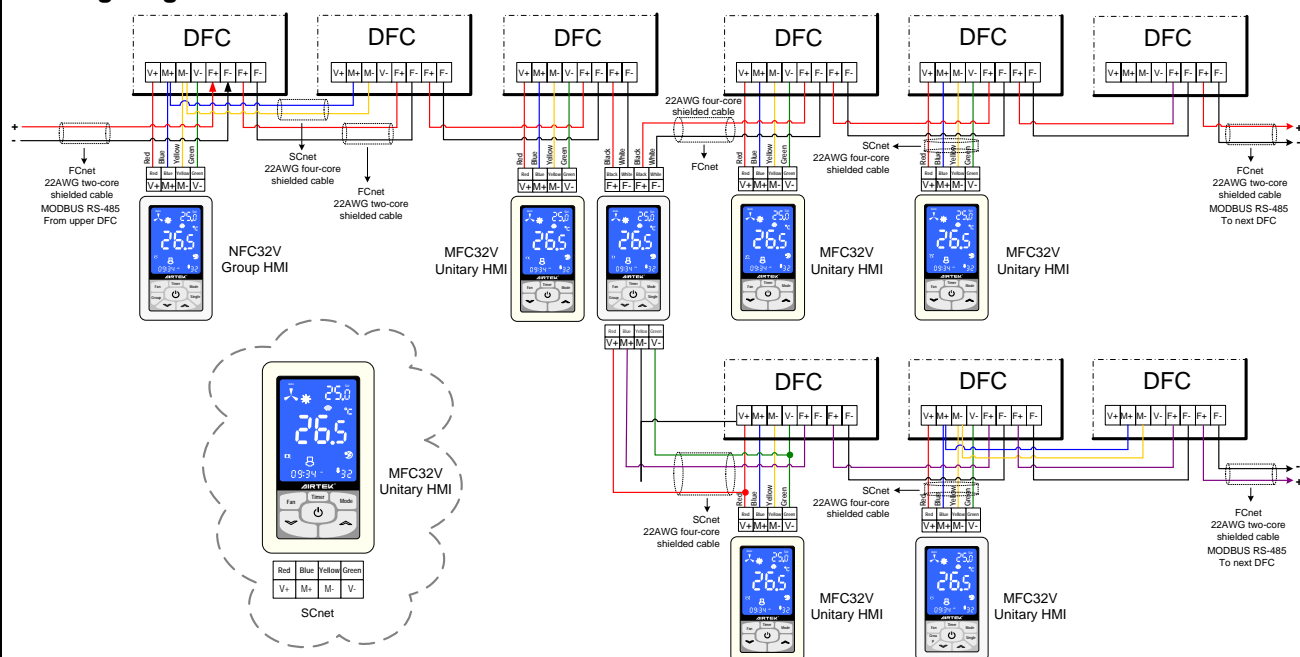
**Keypad** : 6 operation buttons with key lock function.

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

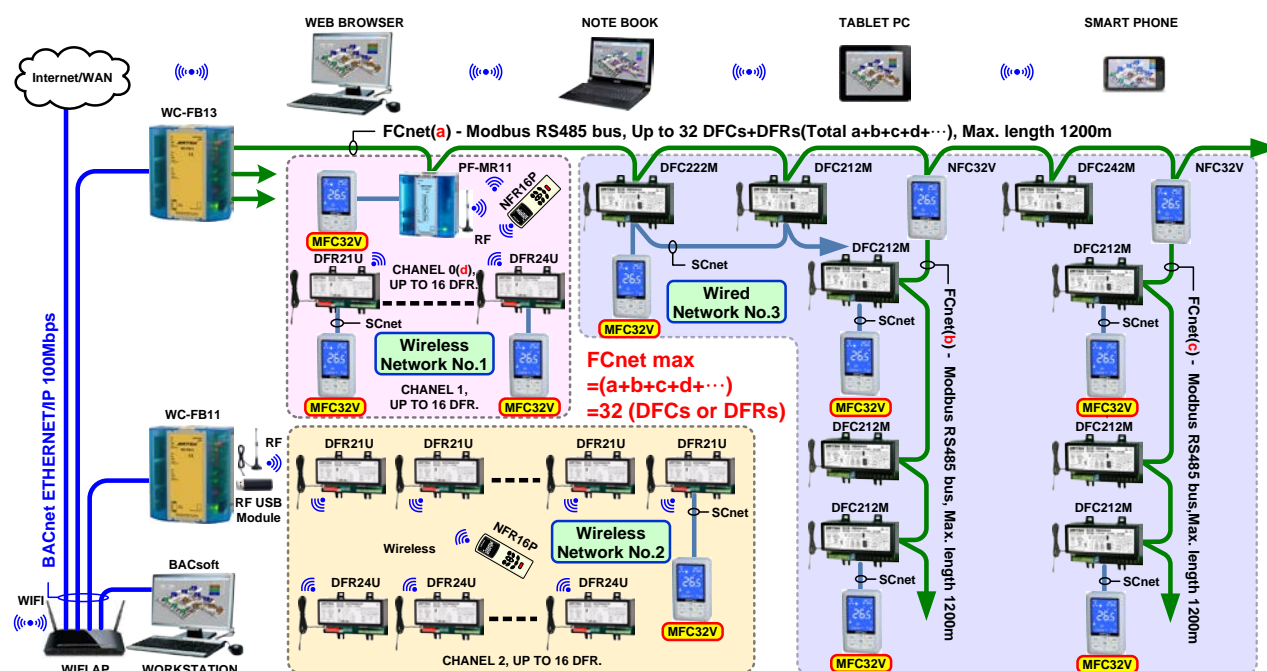
### 【Installation】

- Read and follow the installation instruction in this document for correct installation to prevent damage to product.
- Check if this product meets your application requirement.
- Installer should be a trained and an experienced technician.
- Turn off power when installing to avoid Electric shock or equipment damage.
- Please install this display panel located 1.2M above ground with good ventilation.
- Do not fix in on vibration surfaces, a radiant heat source, or areas of condensation or dust.
- For optimal control effect, it is recommended to use AWG22 two-core shielded cable with exclusive EMT piping for transmission. Keep away from other power sources.
- Connect the control panel and fan coil controller by follow the pin number and wire color in Figure 1 & 2.
- After completion the wiring, fix the bottom plate on the wall, the bottom plate should be flat without twisting to prevent control panel damage.

## 【Wiring Diagram】



## 【Network Architecture】



## 【Dimensions】 Unit : mm

