

# BACnet Integration Level Device

## BACnet Web Embedded F.C.U Controller

# WC-FB.

### 【Description】

WC-FB is a B-AAC class BACnet LAN communication integration controller. It has a Router function, Stand alone, and Web Embedded operation system. It is possible to remote control fan coil units in another building. User can monitor and control each individual FCU or a group of fan coil units through an internet browser. Control functions include Start/Stop, Temperature Setting, Fan Speed Setting, Scheduled On/Off etc. The user can monitor temperature, fan speed, and system status remotely. The WC-FB has a BACnet Ethernet port which enables information to be passed to the BACnet Management level.



### 【Features】

- Conforms with BACnet MS/TP, BACnet Ethernet ISO-8802-2, BACnet/IP protocol formulated by ASHRAE, fully compatible with any BACnet system.
- 32-bit high performance MCU, frequency 180MHz.
- 64MB SDRAM and 16MB memory for program. Maximum 2GB memory SD Card selectable.
- One 1000VDC electrical isolated protected MODBUS RTU RS-485, it can connect up to 32 DFC or DT AHU Controller with transmission speed up to 76,800bps, 1200M
- One MODBUS RTU Slave mode MSnet port for user interface devices which will work with control panel DSP20U.
- Web pages Embedded in operation system hardware. (WebKit software is provided for webpage edit) Web page can be plain text or graphic floor plan.
- 12 control group can be set up with a unique password for each group. Each group can set four time actions for each day in a week. These time action includes Start, Stop, Force Start, Force Stop, Start Energy Saving, Stop Energy Saving.
- Passwords include, System, Area, and Group passwords. Each of these 12 Group has its own unique password. This security system prevents unauthorized operation.
- On-line editing, downloadable logic program as well as real-time program debugging function.
- Operation functions include proportional, integration, differential, floating, logic, mathematic, and subroutine etc
- Real-time clock, 10 Calendars, 100 Schedules, 10 Notification Class, 100 Event Enrollments, standard BACnet object. Schedules and event enrollments support external object access function.

### 【Specification】

Model	Ethernet	MSnet	FCnet	Max. DDC #	Max. Group #
WC-FB11	1	0	1	32 (1 Port)	12
WC-FB13	1	1	3	96 (3 Port)	12

**Power Supply** : 24VAC/DC, 5VA.

**Microprocessor** : 32-bit high performance microprocessor with 64MB SDRAM and 16MB Flash memory

**SD CARD Slot** : 1 SD Card Slot, Max. 2GB SD Card.

**Ethernet Port** : A 10/100M Ethernet for Intranet, Internet, and BACnet communication.

**FCnet Port** : RS-485 MODBUS RTU, 9,600 bps, 1,200M, connect up to 32 DFC.

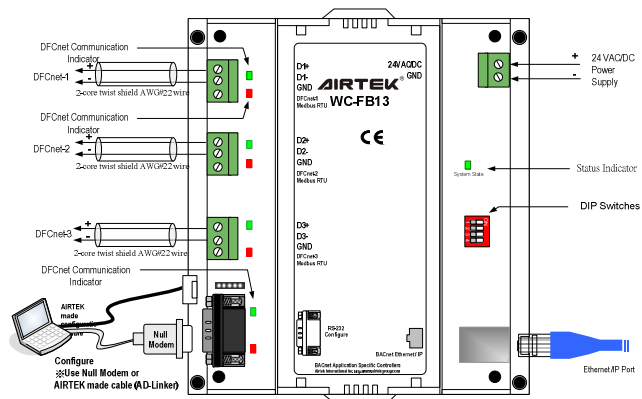
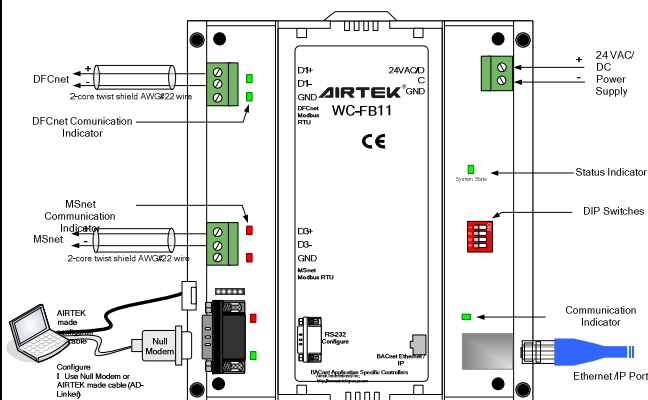
**MSnet Port** : One MSnet MODBUS RTU twist wire RS-485 port, Master or Slave mode selectable, communication speed up to 38,400bps. Provide a build in 5VDC power supply for its DSP20U display panel.

**SoftWare** : Use BACsoft to do DDC programming, WEBkit to do Web page design.

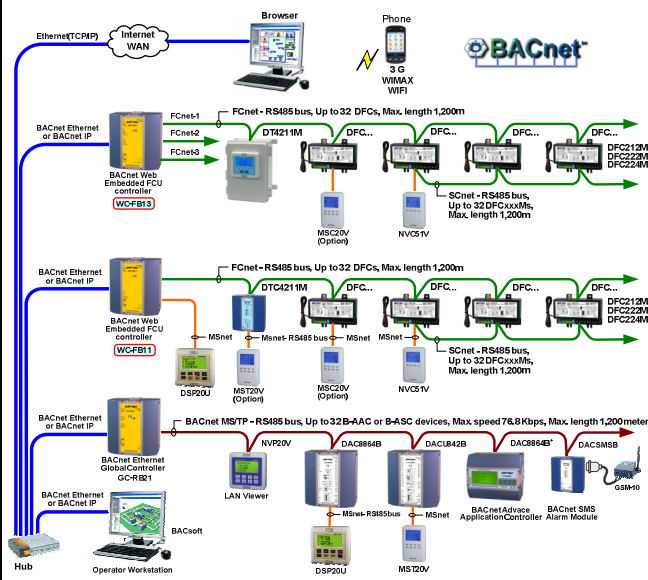
**Environment** : 0 ~ 70℃ , 0 ~ 95%RH, non-condense

**Certificate** : EMC Directive 89/336/EEC (European CE Mark).

## 【Wiring】



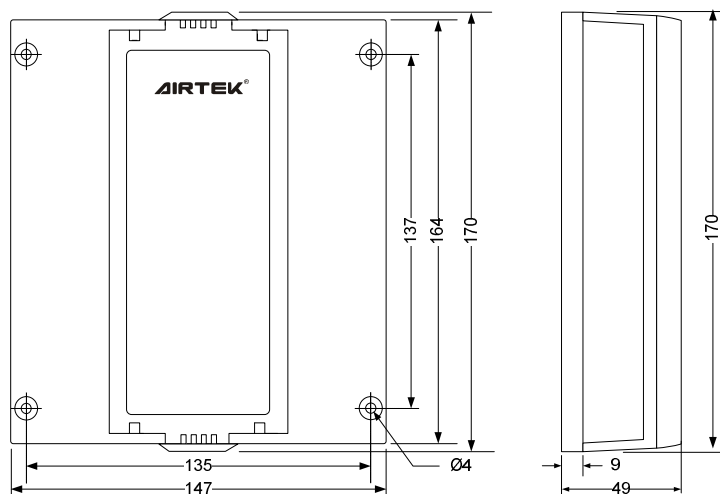
## 【Network】



## 【Web Page Example】



## 【Dimension】 Unit : mm



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