

【Description】

DACU842B+ is a standalone BACnet B-AAC class programmable controller with a LCD control panel. It is designed for monitor and control building electromechanical device, large AHU, clean room, fume hood, large-scale end device control. It uses 32-bit microprocessor core, transmission rate up to 76,800 bps, transmission distance up to 1,200 meter. DACU842B+ has 8 Universal Inputs(UI), 4 Binary Outputs(BO) and 2 Analog Outputs(AO). In addition it also has EIMnet port can connect four EIM series of expansion modules, allowing you to expand in response to needs of various points. DACU842B+ conforms to international BACnet MS/TP communication protocol and fully compatible with any BACnet system. It is absolutely the best product for your building.



【Features】

- Conforms to ASHRAE and ISO16484-1 defined BACnet AAC standard communication protocol, compatible with BACnet system.
- With an MS / TP (Master-Slave / Token-Passing) port, uses Peer-to-Peer Master Slave/Token Passing communication mode.
- With a EIM port can connect up to 4 EIM I/O expansion modules.
- Universal Input (BI) has 12-bit resolution, accept dry contact, pulse, 3K or 10KΩ NTC thermistor, 4 ~ 20mA or 0 ~ 10VDC signal.
- Binary Output (BO) has a 1,000 VDC optical coupling isolation, 8A/250VAC/SPST relay (Relay), Status Indicator design. Each point has a manual on / off / auto three sections selector switch.
- Analog Output (AO) has 12-bit resolution, can be selected by DIP switch or Internal parameters as 0 ~ 10VDC / 2 ~ 10VDC or 0 ~ 20mA / 4 ~ 20mA output signal, each point has a manual override/auto output control switch.
- User's control program can be downloaded, edited and saved in flash memory of the controller.
- Carry out calculations such as proportional, integral, differential, floating, logic, arithmetic and etc.
- 150 Binary Value(BV) and 150 Analog Value(AV) points, the analog value adopts high precision floating-point calculation.
- Priority control array by 16 for all BO, AO and BV.
- Provide power failure backup function for all AI/BO/AO/BV/AV values keep in FRAM for at least 10 years.
- Real-time clock, 2 Calendars, 12 Schedules, 4 Notification Class, 20 Event Enrollments standard BACnet object. Schedules and event enrollments support external object access function.

【Specification】

| Model | UI | BO | AO | EIM QTY | Calendars | Schedules | Notification Class | Event Enrollments | Binary Value(BV) | Analog Value(AV) |
|-----------|----|----|----|---------|-----------|-----------|--------------------|-------------------|------------------|------------------|
| DACU842B+ | 8 | 4 | 2 | 4 | 2 | 12 | 4 | 20 | 150 | 150 |

Power Supply : 24VAC/VDC, 5VA.

Microprocessor : 32-bit high performance MCU, 64K RAM, 32K FRAM and 384K Flash memory.

Universal Input (UI) : 12-bit resolution, accept dry contact, pulse, 3K or 10KΩ NTC thermistor, 4 ~ 20mA or 0 ~ 10VDC.

Binary Output (BO) : 8A/250VAC non-voltage SPST contacts, attached manual on / off / auto three sections selector switch.

Analog Output (AO) : 12-bit resolution, dip switch selection for 4~20mA or 0~10VDC output, attached a manual override/auto output control switch convenient for on-site test work.

Auxiliary Power : Provide 24VDC/160mA power supply for sensor.

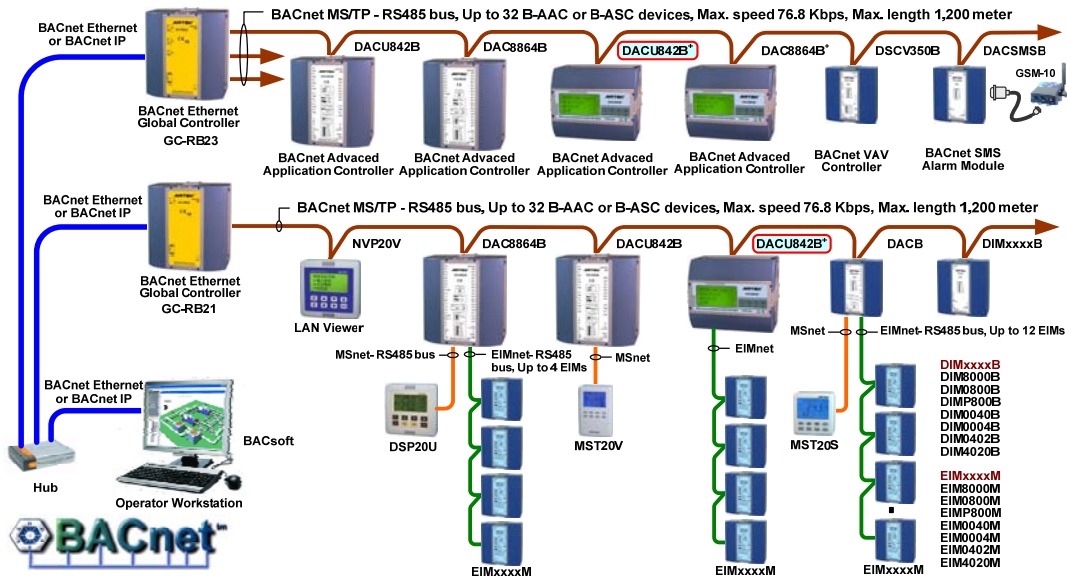
MS/TP Port : Two-wire RS-485 network transmission rate 9,600 / 19,200 / 38,400 / 76,800 bps automatic adjustment.

EIM Port : A AIRTEK RS-485 network, transmission rate 38,400 bps, can connect 4 EIM I/O expansion modules.

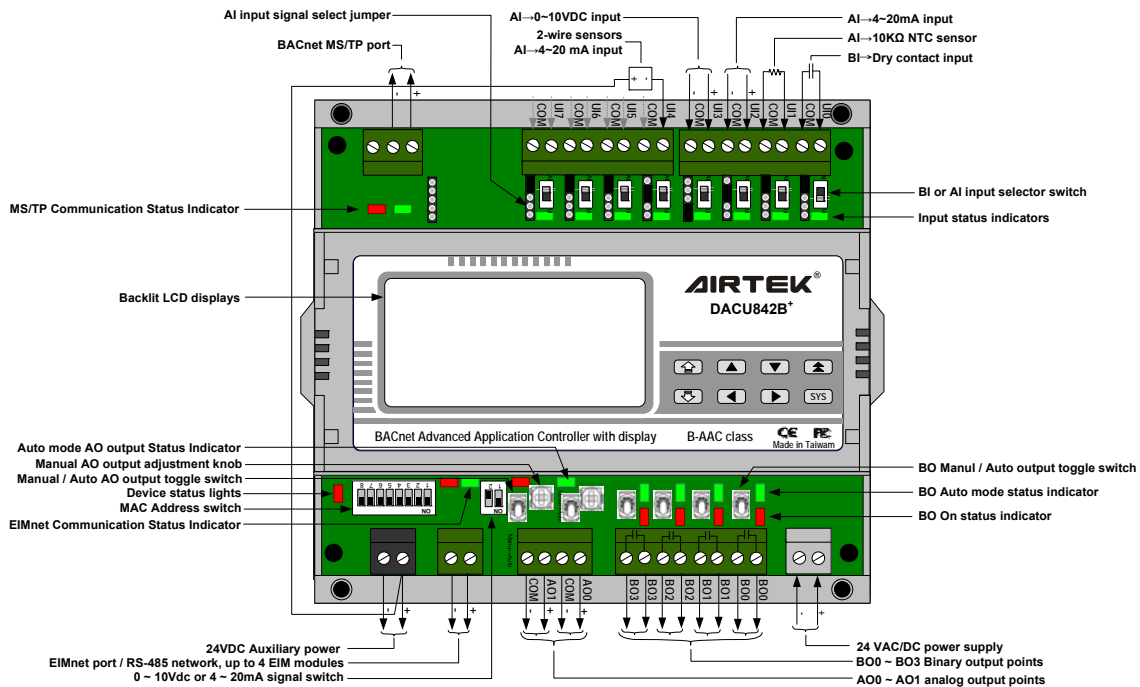
Environment : 0~70℃, 0~95%RH, non-condensing

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

[Network]

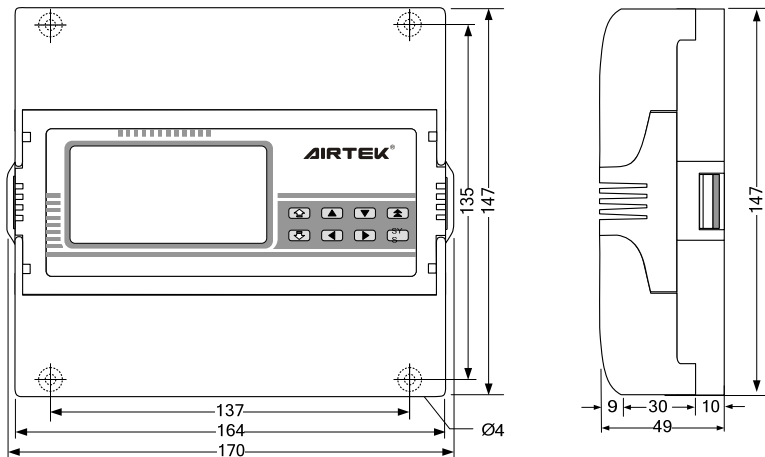


[Wiring]



- Note : 1. All GND and COM are connected together EXCEPT the GND of BACnet MS/TP.
 2. Select a proper I/O signal type for UI and AO.
 3. Calculate the total power consumption and provides enough power supply when DAC and EIM use the same power source.

[Dimension] Unit : mm



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