

Field Control Layer Device

BACnet Advanced Application Controller

DACB

【Description】

DACB is a BTL listed standalone BACnet B-AAC class programmable controller. 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, communication speed up to 76,800 bps, transmission distance up to 1,200 meters. DACB doesn't have I/O point. It must be configured EIM expansion I/O modules then it can work. Up to 12 EIM modules can be connected to it. Total number of I/O points can be selected by using different combinations of EIM. In addition it has an MSnet port can connect to an external LCD control panel to make user operation and control easily at the job site. DACB conforms international BACnet MS/TP communication protocol and fully compatible with any BACnet system. It is absolutely the best product for your building.



【Features】

- It is produced in accordance with the BACnet communication protocol established by the American Heating, Refrigeration and Air-Conditioning Association (ASHRAE), and has passed the BTL B-AAC level certification.
- With Peer to Peer peer-to-peer data transmission and sharing capabilities and the ability to read and write external controller objects, it can read single or multiple data (DS-RP-A/DS-RPM-A) and change the value setting (DS-WP-A).
- Built-in 32-bit microprocessor 64K SRAM, 32K FRAM, 384K Flash memory space.
- Built-in MS/TP master and servant token communication interface, with 2,500Vrms anti-interference potential isolation design.
- Built-in MSnet communication interface, which can be connected to the control panel, the communication rate is 9,600/19,200/38,400 BPS can be selected, and the transmission distance is 1,200 meters.
- Built-in EIMnet communication interface, which can connect 12 EIM series expansion modules, the communication rate is 38,400 BPS, and the transmission distance is 1,200 meters.
- Built-in RS-232 communication interface, through the AD-Linker connection line and the hyper terminal machine program, the initial value of the equipment can be set or parameter modification.
- With online program editing, debugging, online program download and online firmware update functions.
- It has the functions of common HVAC functions such as enthalpy, dew point temperature, PID control, and advanced mathematical functions such as logarithm, trigonometric function, and root sign.
- With BACnet standard objects such as Calendar, Schedule, Notification Class, Event enrollment, etc.; Timetable and alarm event registration support external object access functions.
- It has 150 digital software points (BV) and 150 analog software points (AV), which can be used as calculation values, set points, timers or warning points, etc.
- All pulse input cumulative value (AI), digital output value (BO), analog output value (AO), digital software point (BV), analog software point (AV) all have power-off memory function, which can be automatically when power is off Data can be stored in FRAM for more than 10 years.
- All BO, AO and BV points support 16-bit priority control function.
- The analog point adopts standard floating-point arithmetic, which has a wide numerical range and precision. The control logic program and graphic control application layer do not need to perform magnification calculations.
- Adopt slide rail type installation design, save the space of matching plate, easy to assemble and disassemble.

【Specification】

Model	EIM Q'TY	Calendar	Schedule	Notification	Event	BV Points	AV Points
DACB	12	2	12	4	20	150	150

Power Supply : 24VAC, 4VA.

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

MS/TP Port : RS-485, anti-interference isolator 2,500Vrms and 560Vpeak,
32 controllers, the communication rate is 9,600/19,200/38,400/76,800 BPS, 1,200 meters.

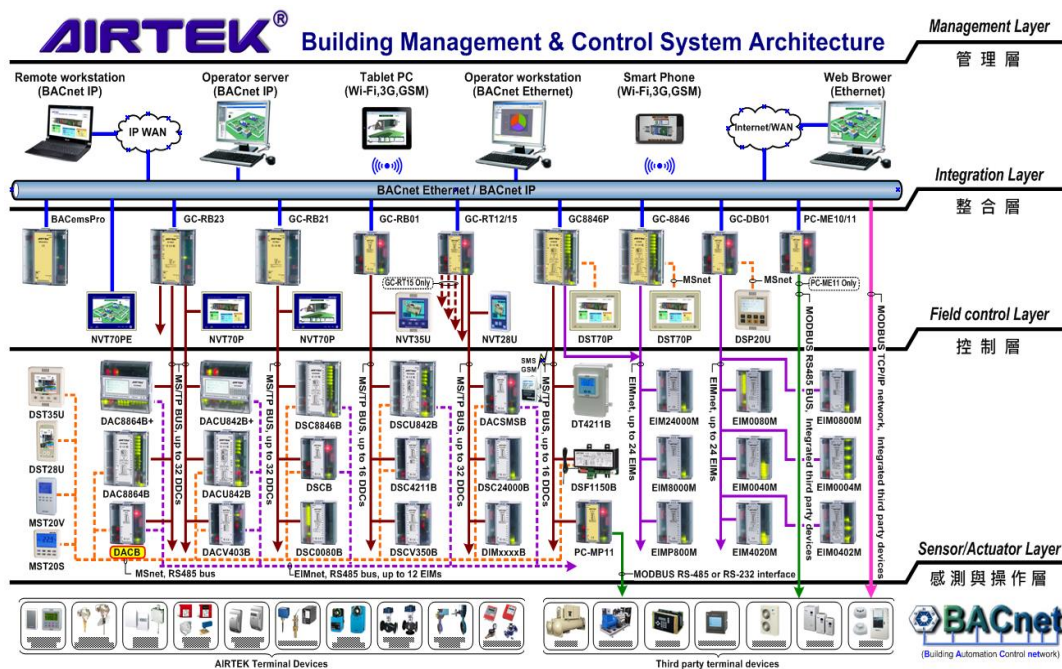
MSnet Port : MODBUS RTU RS-485, communication speed 9,600 bps, max. length 1,200 meters, can connect a control panel

EIM Port : MODBUS RTU RS-485, communication speed 38,400 bps, max. length 1,200 meters, up to 12 EIMs.

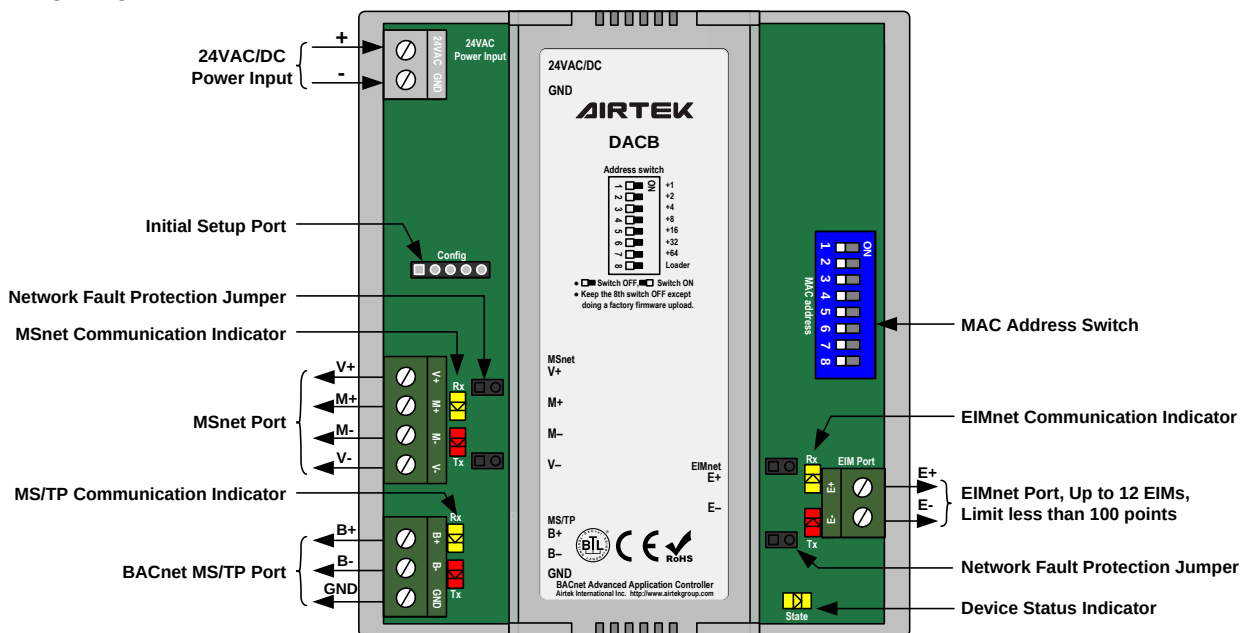
Environment : 0~50°C, 20~90%RH, non-condensing

Certification : CE, BTL (B-AAC), RoHS

【Network Architecture】



【Wiring Diagram】



【Dimension】 Unit : mm

