

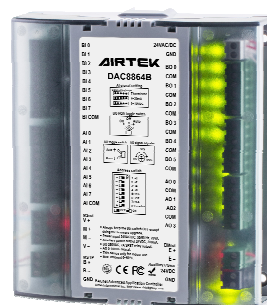
Field Control Layer Device

BACnet Advanced Application Controller+Touch panel

DAC8864B

【 Description 】

DAC8864B 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. DAC8864B has 8 Binary Inputs(BI), 8 Analog Inputs(AI), 6 Binary Outputs(BO) and 4 Analog Outputs (AO). In addition, it has an EIMnet port can connect up to 12 EIM series of expansion modules, allowing you to expand in response to the needs of various points. Another MSnet port can connect to an external LCD control panel to make user operation and control easily at the job site. DAC8864B conforms to international BACnet MS/TP communication protocol, and fully compatible with any BACnet system. It is absolutely the best product for your building.



DAC8864B



DAC8864B-T

【 Features 】

- BTL listed BACnet Advanced Application Controller (B-AAC) class device.
- MS/TP(Master-Slave/Token-Passing) communication interface, with Peer to Peer function can read and write other DDC's object, may issue a read (DS-RP-A/DS-RPM-A) and write (DS-WP-A) BACnet object properties function.
- EIMnet interface can connect up to 12 I/O expansion modules, maximum limit less than 100 points.
- Binary input (BI) has 1,000Vrms optical coupling isolates capabilities and status indicator design.
- Binary output (BO) has 1,000Vrms optical coupling isolate, status indicators, Relay on board output, and manual on / off / auto three sections select switch.
- Analog Input (AI) has 12-bit resolution, can be jumper selectable to accept 3K Ω or 10K Ω NTC thermistor, 0~10VDC, and 4~20mA input signal.
- Analog Output (AO) has 12-bit resolution, can be software selected as a 0~10VDC output signal, each point has a manual override/auto output control switch.
- The user's control program can be downloaded, online edited and saved in flash memory of the controller.
- Carry out calculations such as proportional, integral, differential, floating, logic, arithmetic and etc.
- 150 BV and 150 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 functions for all AI/BO/AO/BV/AV values keep in FRAM for at least 10 years.
- Real-time clock, Calendars, Schedules, Notification Class, Event Enrollments standard BACnet object. Schedules and event enrollments support external object access function.

【 Specification 】

Model	BI	AI	BO	AO	EIM Q'TY	Calendars	Schedules	Notification	Event	BV Points	AV Points	Touch Panel
DAC8864B	8	8	6	4	12	2	12	4	20	150	150	X
DAC8864B-T	8	8	6	4	12	2	12	4	20	150	150	V

Power Supply: 24VAC, 20VA.

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

Binary Input (BI): 12VDC detection voltage, 5,000Vrms interference-resistant optical coupled isolation, accepts dry contact or open collector input signals.

Analog Input (AI): 12-bit resolution, jumper selectable to accept 3K/10K Ω NTC thermistor, 10VDC, or 4~20mA signal.

Binary Output (BO): 7A/250VAC, SPST dry contact. With manual on / off / auto switch, can monitor the status.

Analog Output (AO): 12-bit resolution, 0~10VDC. With manual / automatic switch and output signals adjust knob.

MS/TP Port: MS/TP MODBUS RS-485, communication rate 9,600/19,200/38,400/76,800 bps, auto select, max. length 1,200 meters, having 2500Vrms optical coupling isolator and TVS ARRAY surge protection.

MSnet Port: RS-485, can connect one control panel, communication rate 9,600/19,200/38,400 BPS, 1200 meters.

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

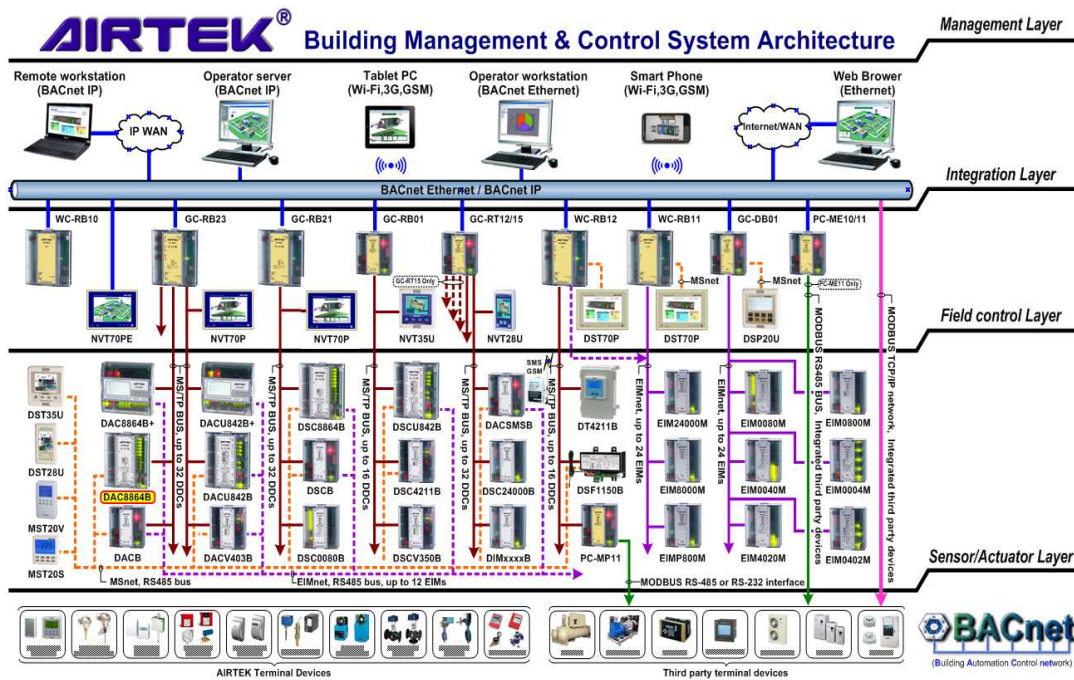
Axulixiary Power: 24VDC, 200mA, for sensor use.

Real Time Clock: Gold capacitor uninterrupted power backup design keeps clock running after a power failure.

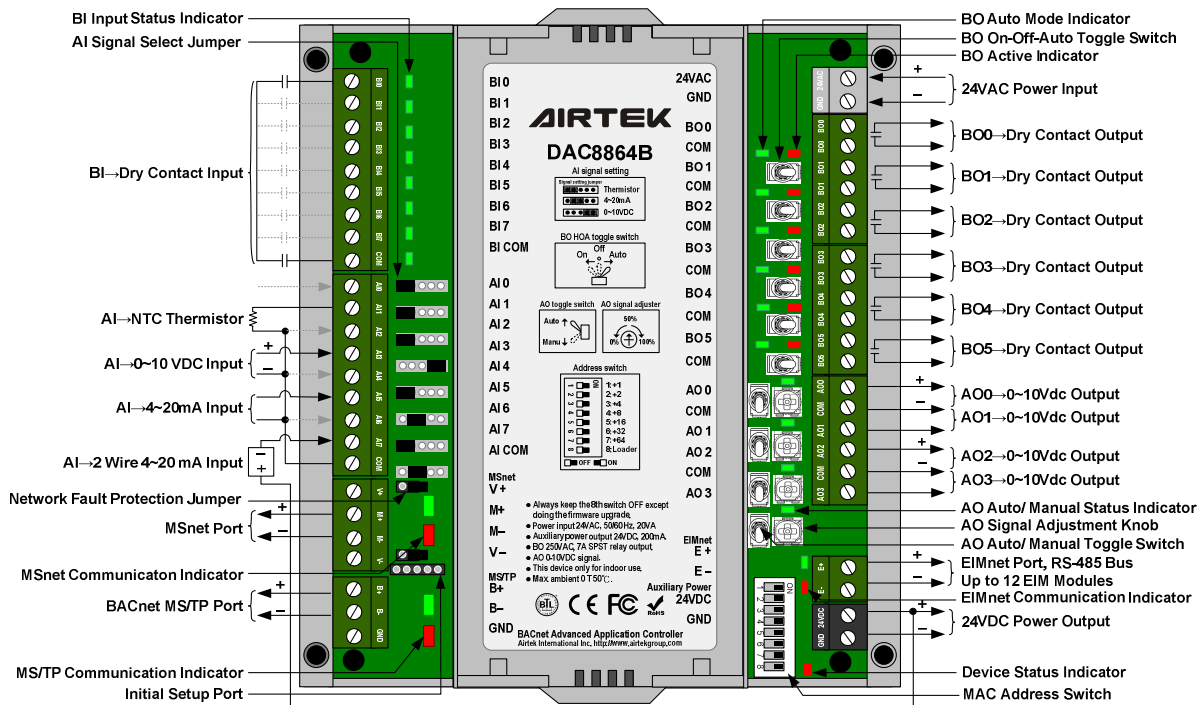
Environment: 0~50 $^{\circ}$ C, 5~95%RH, non-condensing

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

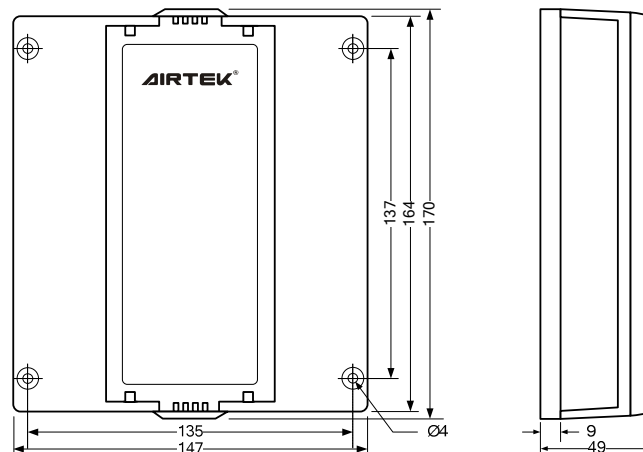
【 Network Architecture 】



【 Wiring Diagram 】



【 Dimension 】 Unit : mm



Please refer to <https://www.airtekgroup.com/> for the most recent update information.