

BACnet Field Control Device

BACnet Advanced Application Controller (MSTP)



DAC8864B+

【Description】

DAC8864B+ is a standalone BACnet B-AAC class programmable controller with 365 day clock and Built in Software configurable LCD Screen. It is designed for monitoring and control of Mechanical Plant. Commissioning is made simple with the onboard A-O-M override switch's, the 0-10vdc output has an onboard POT for manually driving and testing modulating devices. It uses a 32-bit microprocessor, transmission rate up to 76,800 bps. It has 8 Binary Inputs(BI), 8 Universal Inputs(AI), 6 Binary Outputs (BO) and 4 Analog Outputs(AO). In addition it has a Modbus RTU Port (Master or Slave) or set it to View Mode and now it can be used for Dedicated input devices such as LCD wall Panels and Touch Screens ect. The EIM Port connects up to 12 EIM modules in any combination, allowing you to expand in response to the needs of various points. DAC8864B conforms and is tested to international BACnet MS/TP communication protocol and fully compatible with any other BACnet system.



【Features】

- Conforms to ASHRAE and ISO16484-1 defined BACnet AAC standard communication protocol, compatible with BACnet system.
- An 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.
- An EIMnet communication interface can connect up to 12 EIM I/O expansion modules.
- Binary input (BI) has 5,000Vrms optical coupling isolator capabilities and status indicator design.
- Binary output (BO) has 5,000Vrms optical coupling isolator, status indicators and 3 position selector switch (On-Off-Auto).
- Analog Input (AI) has 12-bit resolution, can be jumper selectable to accept 3KΩ or 10KΩ NTC thermistor, 0~5VDC, 0~10VDC, 0~20mA or 4~20mA, Pulse input signal.
- Analog Output (AO) has 12-bit resolution, can be software selected as 0~10VDC or 2~10VDC output signal, each point has a manual override/auto output control switch and adjustable pot for manual control.
- User's control program can be downloaded, edited and saved in flash memory of the controller.
- Can perform 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.
- Power failure backup function for all AI/BO/AO/BV/AV values and stores 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	BI	AI	BO	AO	EIM QTY	Calendars	Schedules	Notification	Event	BV Points	AV Points
DAC8864B+	8	8	6	4	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.

Binary Input (BI) : 12VDC detection voltage, 5,000Vrms optical coupling isolator, accept dry contact or open collector signal.

Analog Input (AI) : 12-bit resolution, jumper selectable to accept 3KΩ or 10KΩ NTC thermistor, 0~5VDC, 0~10VDC, 0~20mA or 4~20mA, pulse input signal.

Binary Output (BO) : 5A/250VAC non-voltage SPST contacts, attached manual On-Off-Auto three sections selector switch.

Analog Output (AO) : 12-bit resolution, 0~10VDC or 2~10VDC output, attached a manual override/auto output control switch.

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

MS/TP Port : 2-wire MS/TP RS-485 bus, communication speed 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.

EIM Port : 2-wire AIRTEK RS-485 bus, communication speed 38,400 bps, max. length 1,200 meters, up to 12 EIMs.

Environment : 0~70°C, 0~95%RH, non-condensing.

Certification : BTL, EMC Directive 89/336/EEC (European CE Mark). UL E363354.

