

Field Control Layer Device

BACnet Application Specific Controller

DSC8864B

【Description】

DSC8864B is a BTL listed standalone BACnet B-ASC 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. DSC8864B 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 an external LCD control panel to make user operation and control easily at the job site. DSC8864B 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】

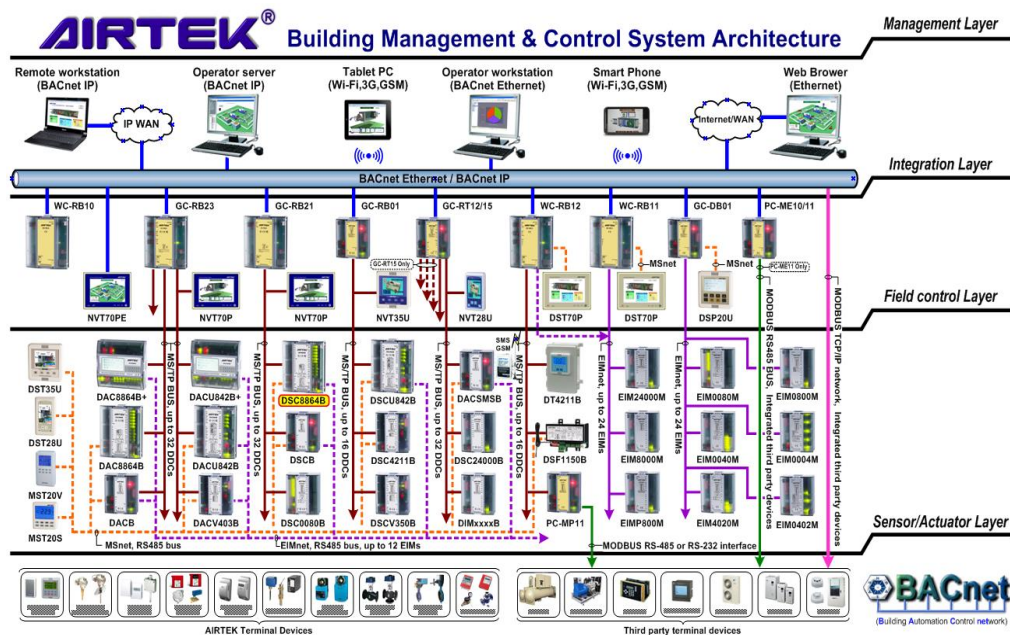
- BTL listed BACnet Application Specific Controller (B-ASC) class device.
- MS/TP (Master-Slave/Token-Passing) communication interface connect to the upper layer, global controller.
- MSnet communication interface can connect a MST20V, MST20S, DSP20U control panel or a MODBUS RTU device.
- EIMnet communication interface can connect up to 12 EIM I/O expansion modules, maximum limit less than 100 points.
- Binary input (BI) has 5,000Vrms optical coupling isolates capabilities and status indicator design.
- Binary output (BO) has 5,000Vrms optical coupling isolates and status indicators.
- 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 input signal.
- Analog Output (AO) has 12-bit resolution, can be software selected as 0~10VDC or 2~10VDC output signal.
- 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.
- 100 Binary Value (BV) and 100 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 functions for all AI/BO/AO/BV/AV values keep in FRAM for at least 10 years.

【Specification】

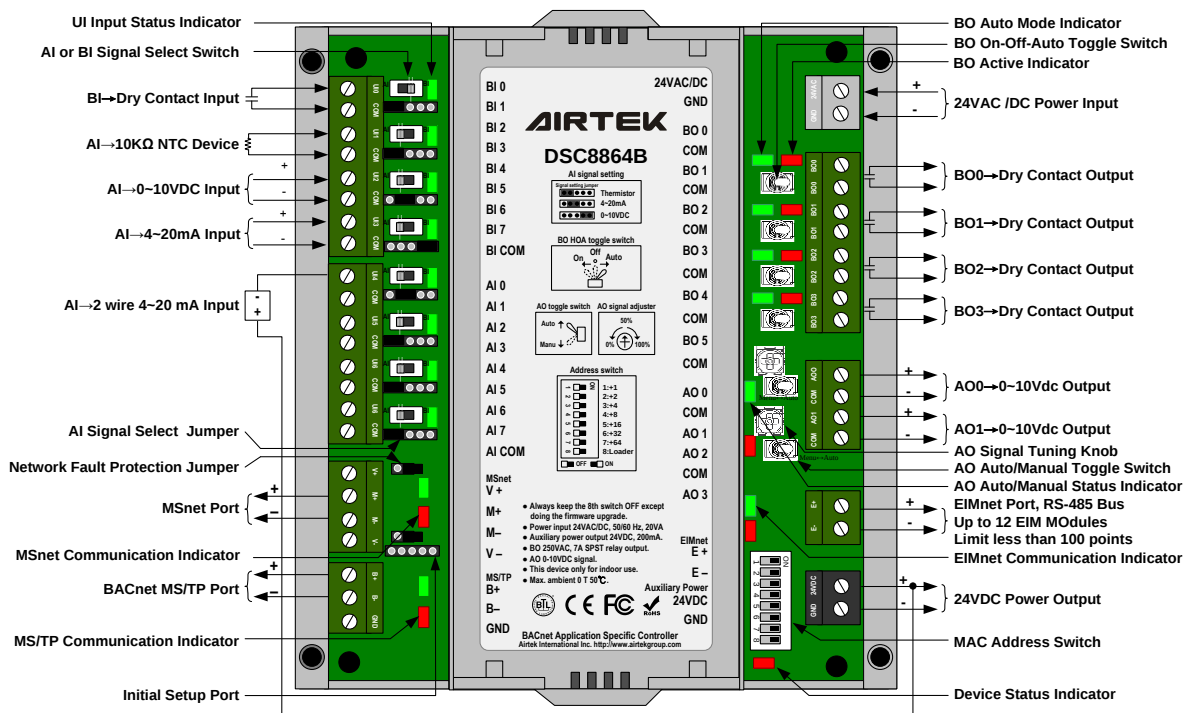
Model	BI Points	AI Points	BO Points	AO Points	BV Points	AV Points
DSC8864B	8	8	6	4	100	100

Power Supply	: 24VAC, 20VA.
Microprocessor	: 32-bit high performance MCU, 20K RAM, 8K FRAM, and 128K Flash memory.
Binary Input (BI)	: 12VDC detection voltage, 1,000VDC optical coupling isolate, accept dry contact or open collector signal.
Analog Input (AI)	: 12-bit resolution, jumper selectable to accept 3K/10KΩ NTC thermistor, 0~10VDC, or 4~20mA signal.
Binary Output (BO)	: 7A/250VAC non-voltage SPST contact output.
Analog Output (AO)	: 12-bit resolution, 0~10VDC output signal with manual operate switch and signal turning knob.
Auxiliary Power	: 24VDC/160mA power supply for external sensor power supply.
MS/TP Port	: RS-485 MODBUS MS/TP communication speed 9,600/ 19,200/ 38,400/ 76,800 bps, auto select, max. length 1,200 meters, having 2500Vrms optical coupling isolate and TVS ARRAY surge protection.
MSnet Port	: RS-485 MODBUS RTU, communication speed 9,600/ 19,200/ 38,400 BPS selectable, can connect to a MST..., DSP..., or DST...panel, or a MODBUS master or slave device.
EIM Port	: MODBUS RTU RS-485, communication speed 38,400 bps, connect to 12 EIMs.
Aluxiary Power	: 24VDC, 200mA, for sensor use.
Environment	: 0~50℃, 20~90%RH, non-condensing
Certification	: CE, FCC, BTL(B-ASC), RoHS

【Network Architecture】



【Wiring Diagram】



【Dimension】 Unit : mm

