

Field Control Layer Device

BACnet Application Specific Controller

DSC8846B

【Description】

DSC8846B is a standalone BTL listed 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. DSC8846B has 8 Binary Inputs(BI), 8 Analog Inputs(AI), 4 Binary Outputs (BO) and 6 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. DSC8846B is a BTL listed device, and is fully compatible with any BACnet system. It is absolutely the best product for your building.



【Features】

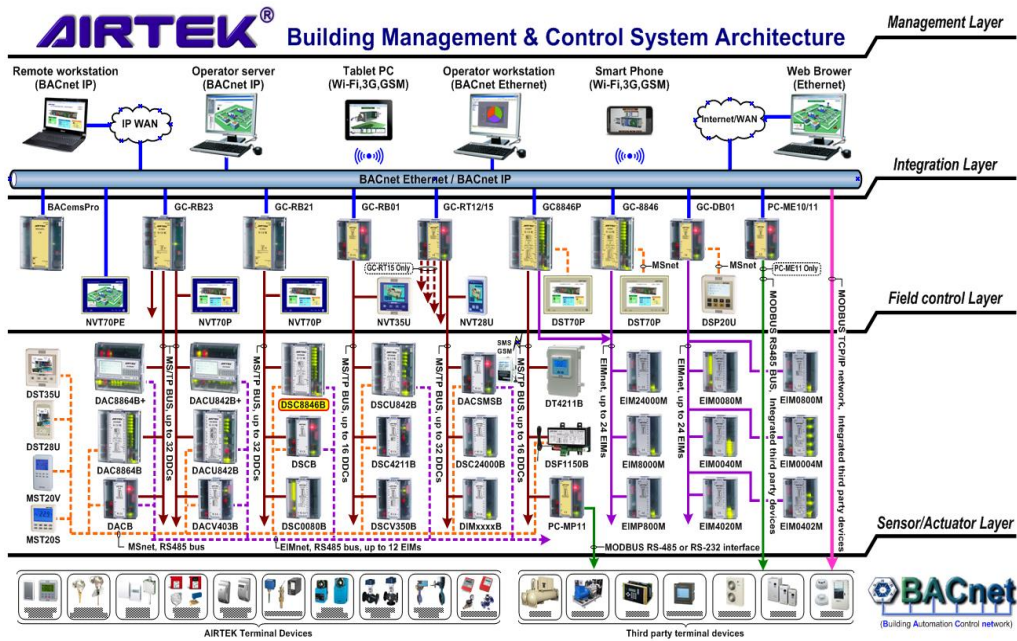
- BACnet Application Specific Controller (B-ASC) class listed device.
- An MS/TP (Master-Slave/Token-Passing) communication interface connect to the upper layer, global controller.
- An MSnet communication interface can connect an MST, DSP, DST control panel or a MODBUS RTU device.
- An EIMnet communication interface can connect up to 12 EIM I/O expansion modules, in response to the needs of various points
- With RS-232 interface can be connected via an AD - Linker line to HyperTerminal program for change of configuration.
- Binary input (BI) with 1,000VDC optical coupling isolate capabilities and status indicator design.
- Digital outputs (BO) optical coupling with 1,000 VDC isolation, status indicators, Triac. Each BO point has manually open / close / automatic three-stage switch can be manually state transitions to the input/output point and transmit to the computer monitor.
- Analog Input (AI) with 16-bit resolution, can be jumper selectable to accept 3KΩ or 10KΩ NTC thermistor, 0~10VDC or 4~20mA input signal.
- Analog Output (AO) has 16-bit resolution, 0~10VDC standard output signal. Each AO both with manual / automatic switch and manual output adjustment knob, and can be manually converted to an output point state returns monitoring computer to facilitate on-site commissioning and maintenance adjustments maintenance work
- Online edit DDC control functions can be edited online, download control logic programming, and real-time debugging, with enthalpy, dew point temperature, PID control, HVAC common computing functions, and have logarithms, trigonometric functions, roots and so on Advanced Math function.
- The cumulative value of all analog input (AI), digital output value (BO), analog output (AO), digital software point (BV), analog software point (AV) both with power failure memory function, can automatically write to the FRAM upon power failure, the data can be stored for more than 10 years.
- With 100 points (BV) and 100 points of analog software point (AV), as calculated values, set points, such as the use of a timer or point guard, which supports 16 BV points rank priority matrix (Priority arrays) control function.

【Specification】

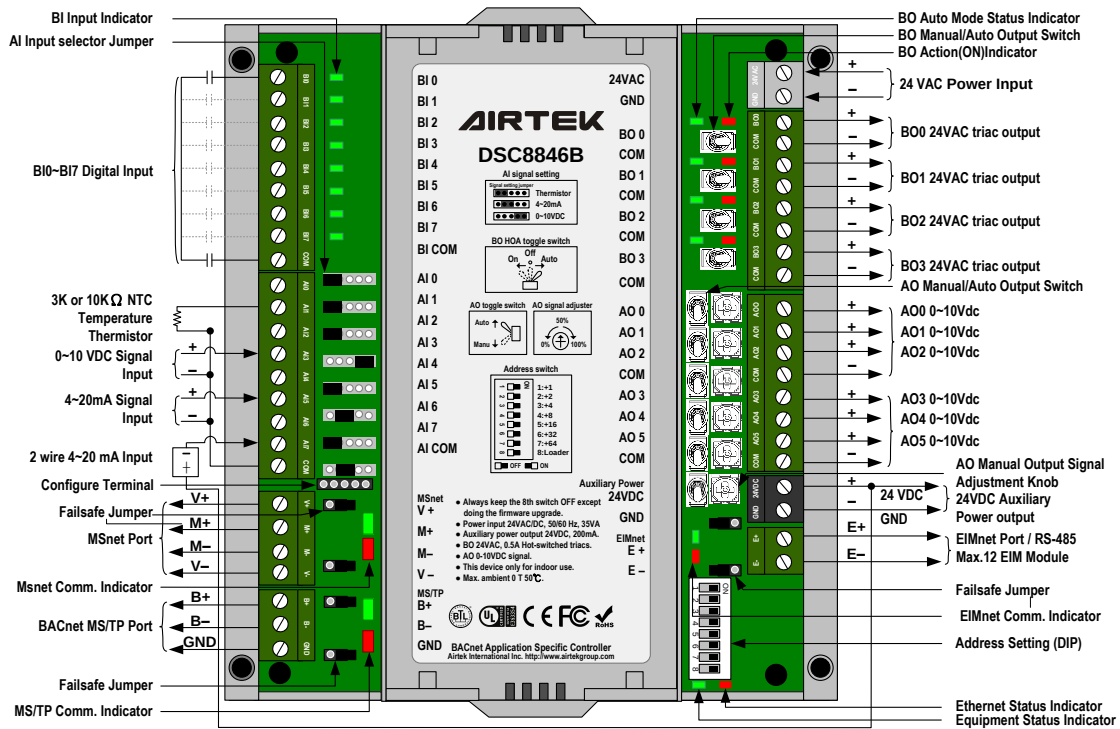
Model	BI	AI	BO	AO	EIM Q'TY	BV Points	AV Points
DSC8846B	8	8	4	6	12	100	100

Power Supply	: 24VAC, 35VA.
Microprocessor	: Dual 32-bit high performance MCU, 128K FRAM, 1M+128K+16K SRAM, 8M+1M+64K Flash memory.
Binary Input (BI)	: 12VDC detection voltage, 1,000VDC optical coupling isolates, accepts dry contact or open collector signal.
Analog Input (AI)	: 16-bit resolution, jumper selectable to accept 3K/10KΩ NTC thermistor, 0~10VDC, or 4~20mA signal.
Binary Output (BO)	: With 0.5A/24VAC/DC (Hot-switched triacs) output. With manual on / off / auto switch, can monitor the status.
Analog Output (AO)	: 16-bit resolution, 0~10VDC. With manual / automatic switch and output signals adjust knob.
MS/TP Port	: RS-485, 32 controller, 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	: MODBUS RTU RS-485 port, communication speed 9,600/19,200/38,400bps bps selectable, max. length 1,200 meters, connect to MST..., DSP..., or DST...control panel, or a MODBUS master or slave device.
EIMnet Port	: MODBUS RTU RS-485 bus, communication speed 38,400 bps, max. length 1,200 meters, up to 12 EIMs.
Real Time Clock	: Real Time clock with ultra capacitor back up design.
Environment	: 0~50℃, 20~90%RH, non-condensing
Certification	: CE, FCC, BTL(B-ASC), UL916, RoHS

【Network Architecture】



【Wiring Diagram】



【Dimension】 Unit : mm

