

Field Control Layer Device

BACnet Application Specific Controller

DSC4211B

【Description】

DSC4211B is a BTL listed standalone BACnet B-ASC class programmable controller. It is designed for monitor and control building electromechanical device, small AHU, clean room, fume hood, small-scale end device control. It uses 32-bit microprocessor core, transmission rate up to 76,800 bps, transmission distance up to 1,200 meters. DSC4211B has 4 Binary Inputs(BI), 2 Analog Inputs (AI), 1 Binary Output (BO) and 1 Analog Outputs (AO). 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. DSC4211B 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 to a MST20V, MST20S, DSP20U control panel or a MODBUS RTU device.
- Binary Input (BI) has 1000VDC optical coupling isolates and status indicator design.
- Binary output (BO) has 1000VDC optical coupling isolates, status indicators, on-board relay design.
- Analog Input (AI) has 12-bit resolution, jumper selectable to accept dry contact, 3K/10K Ω NTC thermistor, 0~10VDC, 4~20mA signal.
- Analog Output (AO) has 12-bit resolution, 0~10VDC signal.
- The user's control program can be downloaded, online edited and saved in 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.
- Priority control array by 16 for all BO, AO and BV.
- The analog value adopts high precision floating-point calculation.
- Provide power failure backup functions for all AI/BO/AO/BV/AV values keep in FRAM for at least 10 years.
- Slide track design for space-saving and easy installation.

【Specification】

Model	BI Points	AI Points	BO Points	AO Points	BV Points	AV Points
DSC4211B	4	2	1	1	100	100

Power Supply : 24VAC/VDC, 5VA.

Microprocessor : 32-bit high performance MCU, 20K RAM, 8K FRAM, and 128K Flash memory.

Binary Input (BI) : 12VDC detection voltage, 1,000VDC isolation optical coupling, accept dry contact or open collector signal.

Analog Input (AI) : 12-bit resolution, selectable to accept dry contact, 3K/10K Ω NTC thermistor, 0~10VDC or 4~20mA.

Binary Output (BO) : 7A/250VAC non-voltage SPST contact output, having 1,000VDC optical coupling isolator.

Analog Output (AO) : 12-bit resolution, 0~10VDC output signal.

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

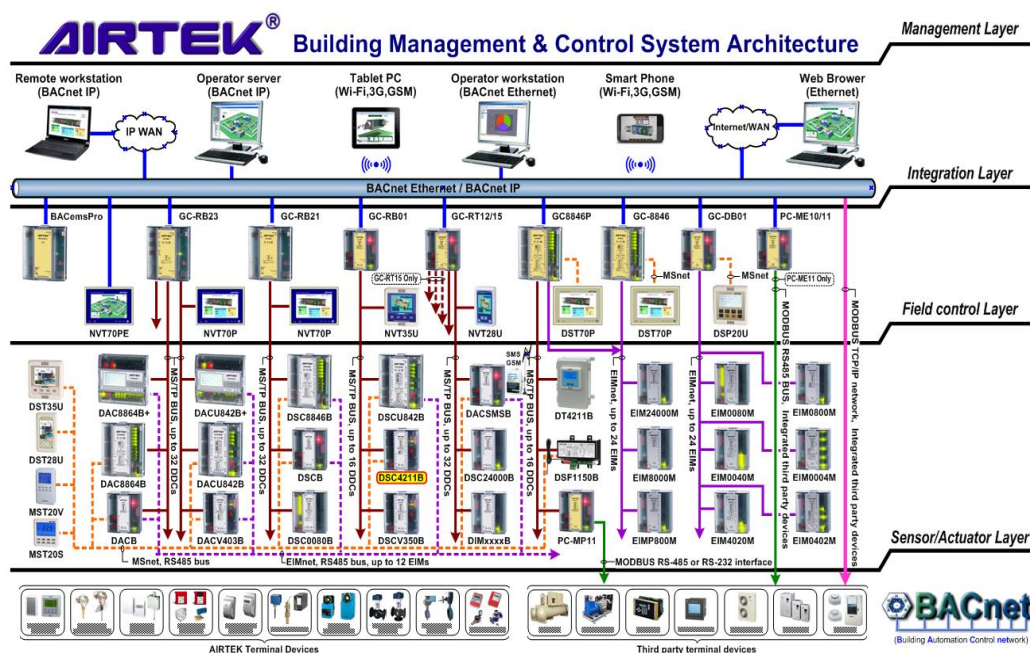
MS/TP Port : MODBUS RS-485 MS/TP, communication speed 9,600/ 19,200/ 38,400/ 76,800 bps, auto select, max. length 1,200 meters, having 2500Vrms isolate and TVS ARRAY surge protection.

MSnet Port : MODBUS RTU RS-485 bus, communication speed 9,600/ 19,200/ 38,400 bps, can connect to a control panel or a MODBUS master or slave device.

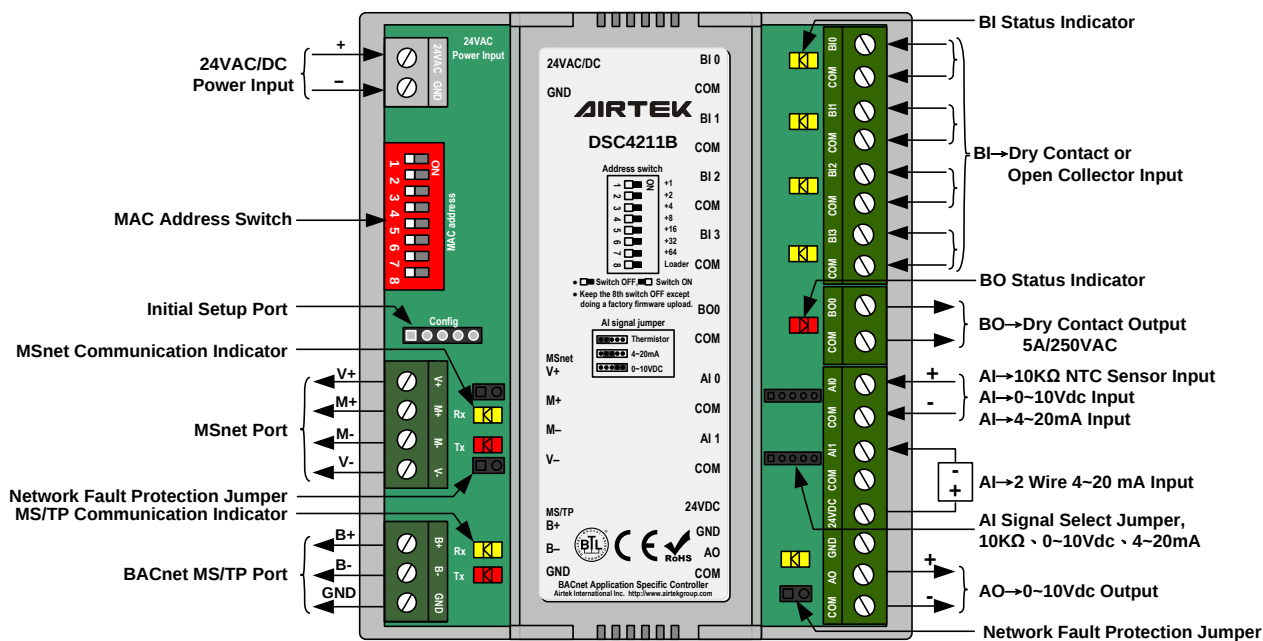
Environment : 0~50 $^{\circ}$ C, 20~90%RH, non-condensing

Certification : CE (EMC Directive 2004/108/EC), BTL(BACnet Testing Laboratory Listed BACnet Application Specific Controller(B-ASC))

【Network Architecture】



【Wiring Diagram】



【Dimension】 Unit : mm

