

# Field Control Layer Device

## BACnet Application Specific Controller

# DSC0080B

### 【Description】

DSC0080B is a 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 meter. DSC0080B has 8 Binary Outputs (BO). In addition it has an EIMnet port can connect 12 EIM expansion modules. Total number of I/O points can be selected by using different combinations of EIM modules. DSC0080B conforms to international BACnet MS/TP communication protocol and fully compatible with any BACnet system.



### 【Features】

- Conforms to ASHRAE and ISO16484-1 defined BACnet B-ASC standard communication protocol, compatible with BACnet system.
- A MS/TP(Master-Slave/Token-Passing) communication interface connect to upper layer global controller.
- An EIMnet communication interface can connect up to 12 EIM I/O expansion modules, maximum limit less than 100 points.
- Binary Output (BO) has 5,000Vrms optical coupling isolator, status indicators.
- User's control program can be downloaded, 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.
- Priority control array by 16 for all BO, AO and BV.
- The analog value adopts high precision floating-point calculation.
- Power failure backup for all AI/BO/AO/BV/AV values 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	EIM QT'Y	BV Points	AV Points
DSC00800B	0	0	8	0	12	100	100

**Power Supply** : 24VAC/VDC, 5VA.

**Microprocessor** : 32-bit high performance MCU, 10K RAM, 8K FRAM and 64K Flash memory.

**Binary Output** : 7A/250VAC non-voltage SPST contact output, having 5,000Vrms optical coupling isolator.

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

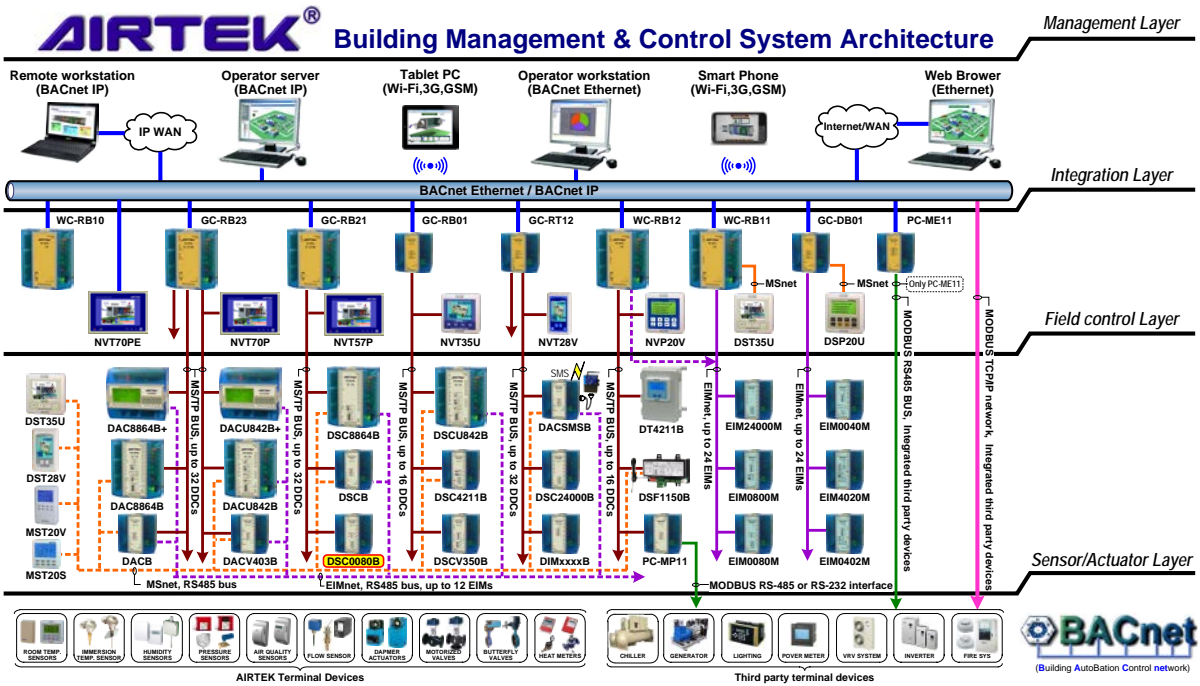
**MS/TP Port** : 2-wire MS/TP RS-485 bus, communication speed 9,600/ 19,200/ 38,400/ 76,800 bps, auto select, max. length 1,200 meters, having 2500Vrms optical coupling isolator and TVS ARRAY surge protection.

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

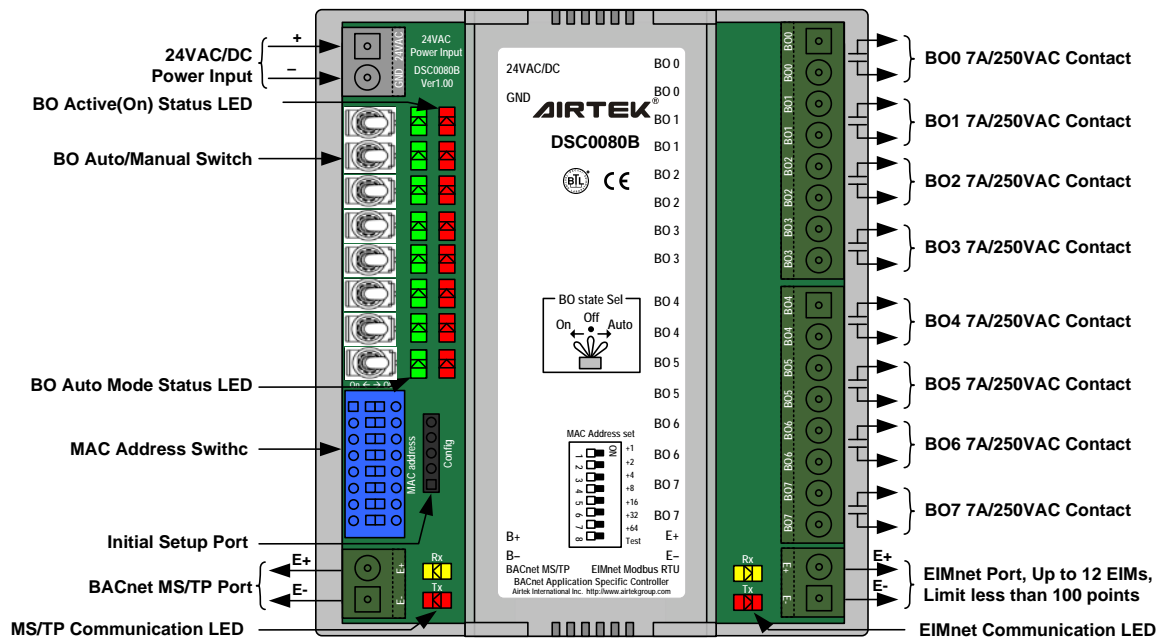
**Envirenment** : 0~70℃, 0~95%RH, non-condensing

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

## 【Network Architecture】



## 【Wiring Diagram】



## 【Dimension】 Unit : mm

