

Field Control Layer Device

BACnet Application Specific Controller

DSC24000B

【Description】

DSC24000B is a standalone BACnet B-ASC class programmable controller with 24 Binary Inputs (Bi) with LED status indication. It is designed for low cost monitor where many Digital points are required, it can also carry out complex control strategies and calculations. It uses a 32-bit microprocessor core, communication speed up to 76,800 bps, transmission distance up to 1,200 meter. DSC24000B conforms to international BACnet MS/TP communication protocol and fully compatible with any BACnet system.



【Features】

- Conforms to ASHRAE and ISO16484-1 defined BACnet ASC standard communication protocol, compatible with BACnet systems.
- An MS/TP(Master-Slave/Token-Passing) communication interface connect to upper layer global controller.
- Binary input (Bi) has 5,000Vrms optical coupling isolator capabilities and status indicator design.
- 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 (BV) and 100 Analog (AV) points, the analog value adopts high precision floating-point calculation.
- Priority control array by 16 for all BV points.
- Power failure backup for all BV/AV values and stored in FRAM for at least 10 years.

【Specification】

Model	BI Points	AI Points	BO Points	AO Points	BV Points	AV Points
DSC24000B	24	0	0	0	100	100

Power Supply : 24VAC/VDC, 5VA.

Microprocessor : 32-bit high performance MCU, 64K RAM, 32K FRAM and 384K Flash memory.

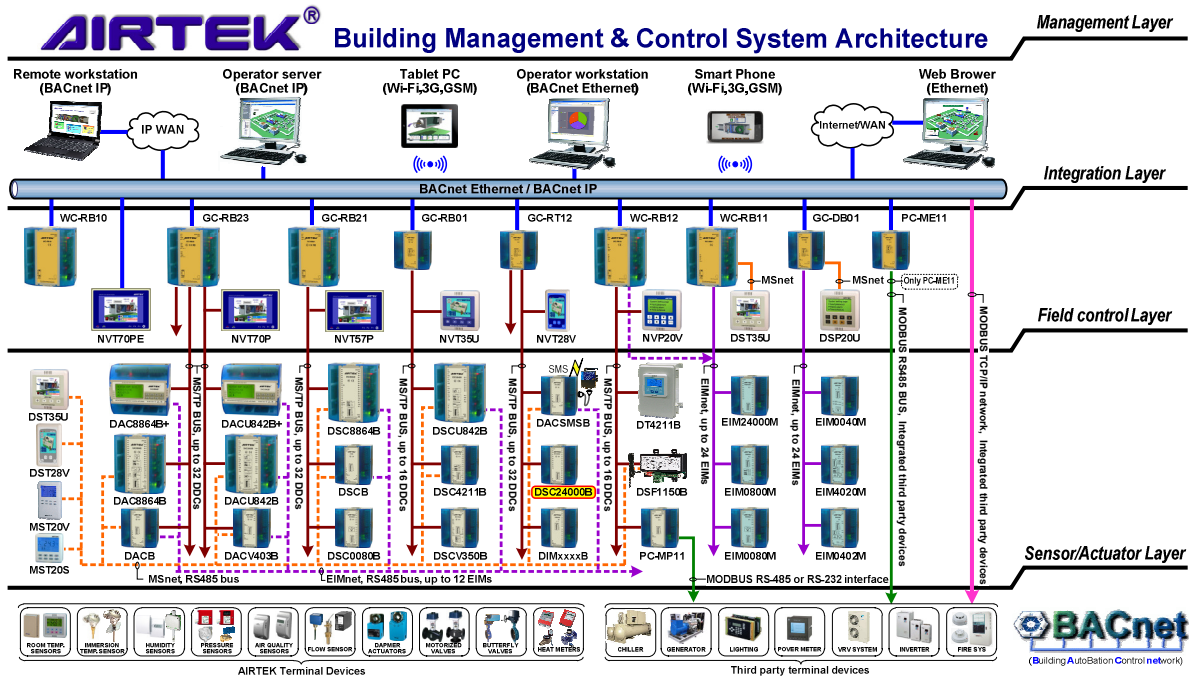
Binary Input (Bi) : 12VDC detection voltage, 5,000Vrms optical coupling isolator, accept dry contact or open collector signal.

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.

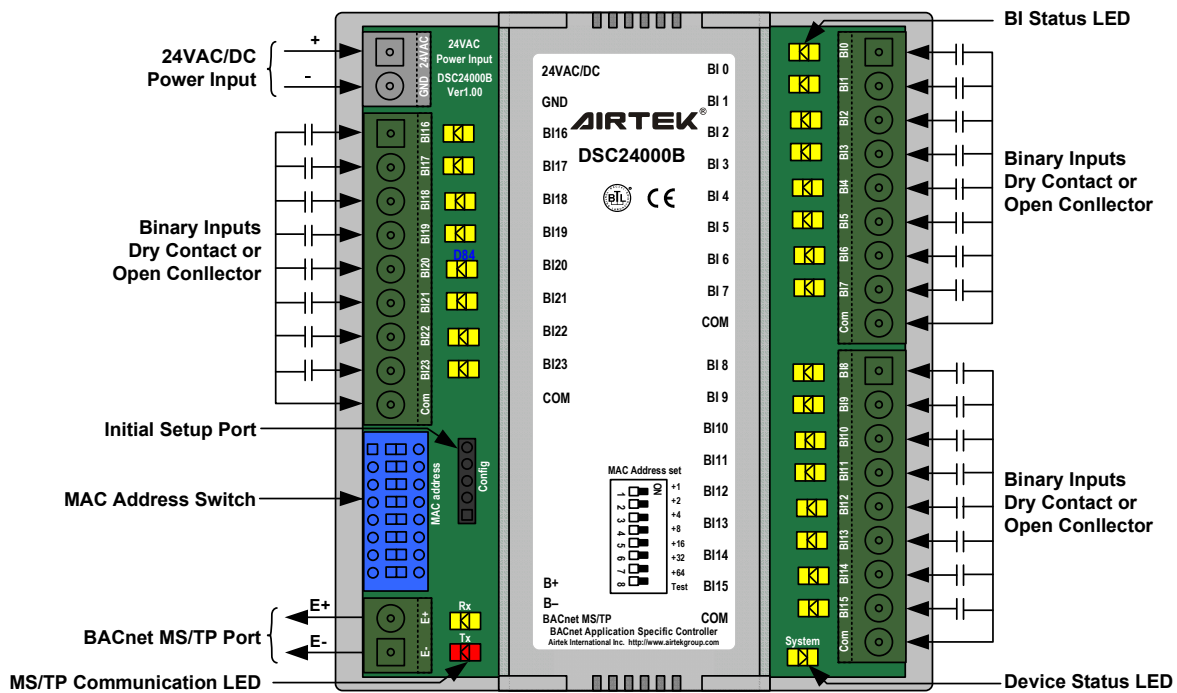
Envirenment : 0~70°C , 0~95%RH, non-condensing

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

【Network Architecture】



【Wiring Diagram】



【Dimension】 Unit : mm

