

BACnet Field Control Device

Digital Programmable Controller

DSCB

【Description】

DSCB is a 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 has a 32 bit microprocessor and works with the EIM I/O extension modules. Its EIM port can connect 4 EIM modules. Total number of I/O points can be selected by using different combination of I/O. DSCB has an user interface device port. The MSnet port can connect to a LCD control panel for user control and monitor the system. DSCB conforms international BACnet MS/TP communication protocol and fully compatible with any BACnet system.



【Features】

- Conforms to ASHRAE and ISO16484-1 defined BACnet AAC standard communication protocol, compatible with BACnet system.
- One MS/TP Master-Slave/Token- Passing port, peer-to-peer master/slave communication.
- One MSnet port is selectable to communicator with MODBUS RTU Master or Slave device, or connected to operation panel MST20V or DSP20U.
- The EIM port can connect up to 4 EIM I/O expansion modules.
- Carry out calculations such as proportional, integral, differential, floating, logic, arithmetic and etc.
- 100 BV and 100 AV points.
- Provide power failure backup function for all AI/BO/AO/BV/AV values keep in FRAM for at least 10 years.
- Priority control array by 16 for all BO, AO and BV.
- The analog value adopts high precision floating-point calculation.
- User's control program can be downloaded, online edited and saved in flash memory of the controller.
- Slide track design for space-saving and easy installation

【Specification】

Model	Total EIM	Maximum Available Points					Optional
		BI	PI	AI	BO	AO	
DSCB	4	32	32	32	16	16	MST20V or DSP20U LCD display panel is available for extra order

Power Supply : 24VAC/VDC, 2VA

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

MS/TP Port : One MS/TP RS-485 port, communication speed 9,600/ 19,200/ 38,400/ 76,800 bps, auto select, 2500Vrms electrical isolated protection and TVS ARRAY surge protection.

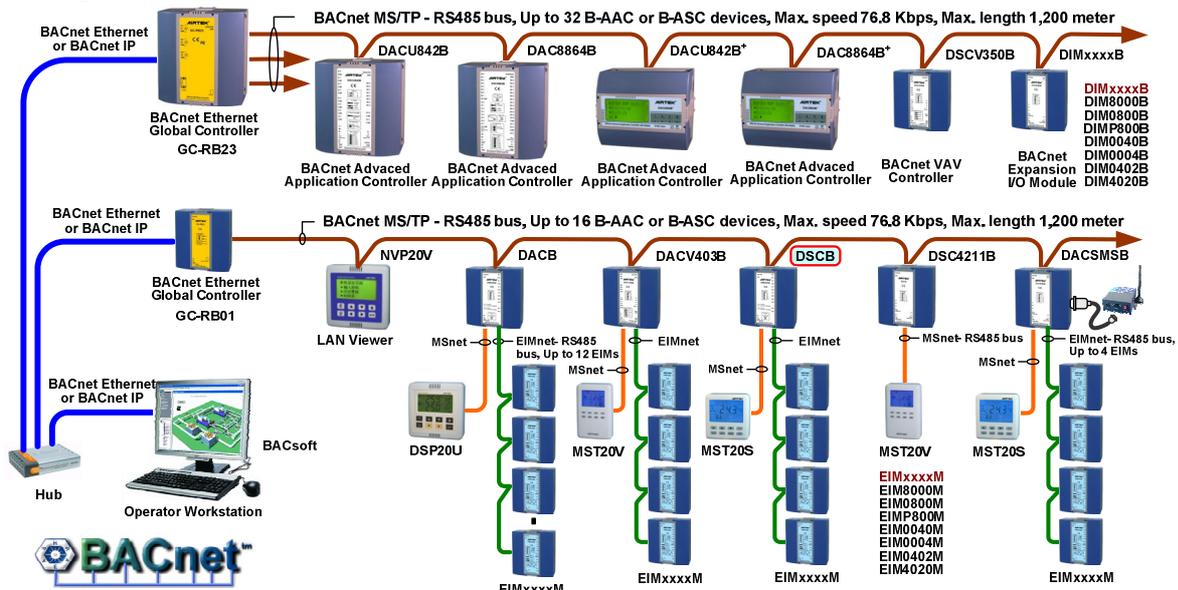
MSnet Port : One MSnet MODBUS RTU RS-485 port, communication speed 9,600/ 19,200/ 38,400bps, adjustable. It works with master or slave device or control panel MST20V or DSP20U.

EIM Port : One Airtek RS-485 port, communication speed 38,400bps, works with 4 EIM I/O expansion modules.

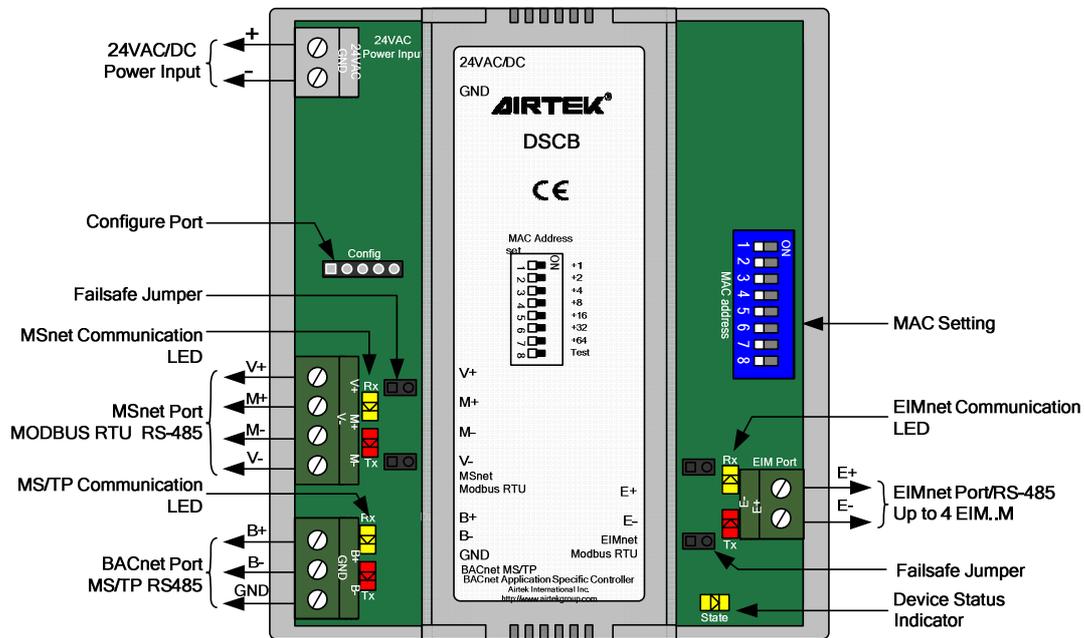
Environment : 0~70°C, 0~95%RH, non-condensing

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

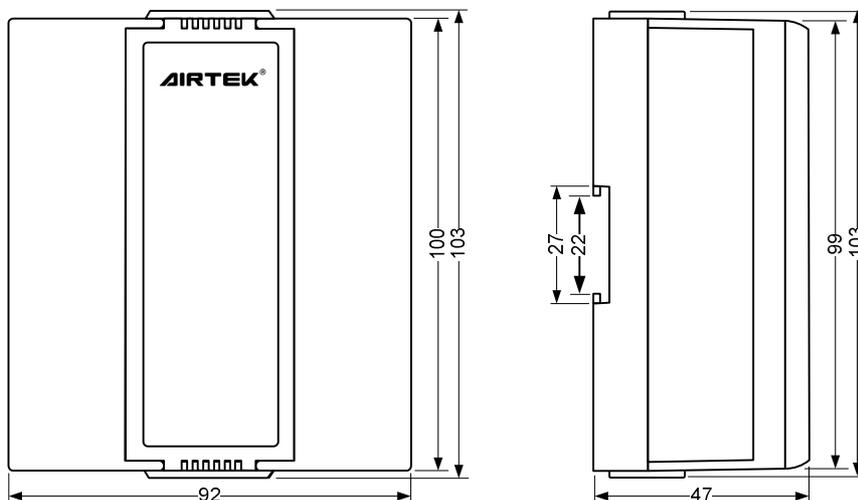
[Network]



[Wiring]



[Dimension] Unit : mm



Please refer to <http://www.airtek.com.au> for the most recent updated information.