

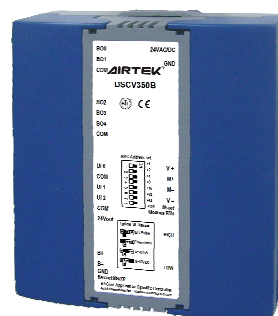
BACnet Field Control Device

DSCV350B

BACnet VAV Controller

【Description】

DSCV350B is a BACnet B-ASC class programmable VAV controller. It has an air pressure sensor to control a single duct VAV box. We can control dual duct VAV box by using EIM module on the EIMnet port. It has a 32 bit microprocessor, communication speed up to 76,800bps. Its universal input point takes binary or analog input signals. Its binary outputs are hot-switched triacs. Its analog input signal can be 4~20mA or 0~10VDC. DSCV350B has a user interface device port. This MSnet port can connect to a LCD control panel for user control and monitor the system. DSCV350B conforms international BACnet MS/TP communication protocol and fully compatible with any BACnet system. DSCV350B combines air pressure sensor and programmable function, provides a high precision VAV control.



【Features】

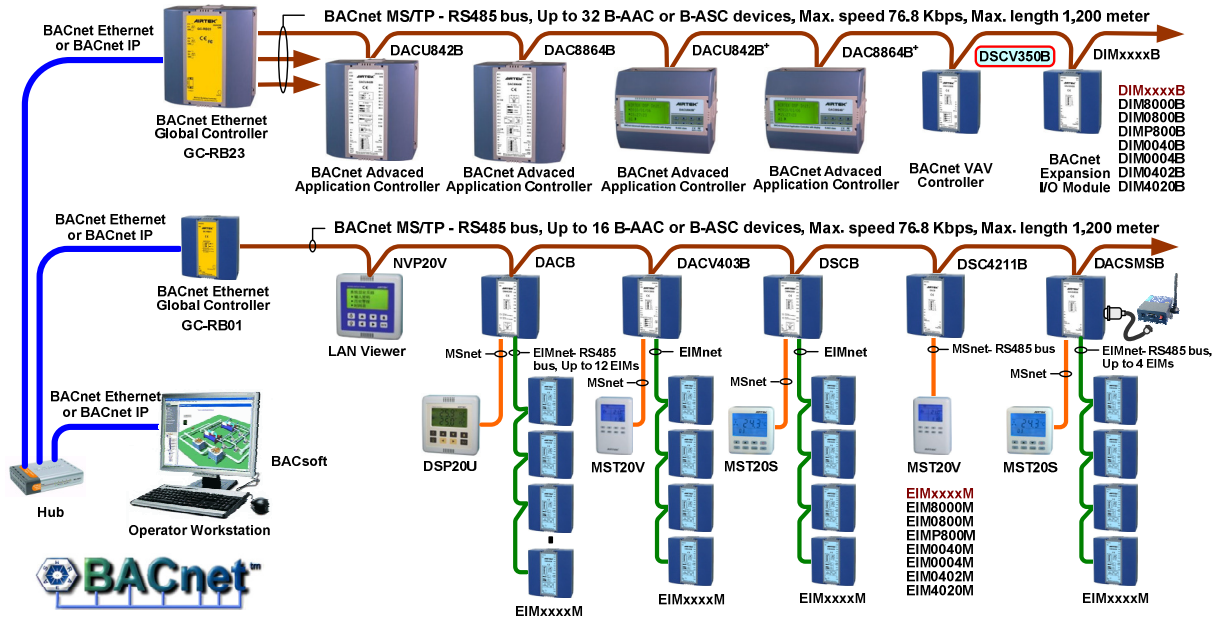
- Conforms to ASHRAE and ISO16484-1 defined BACnet B-ASC standard communication protocol, compatible with BACnet system.
- With an MS / TP (Master-Slave / Token-Passing) port, uses Peer-to-Peer Master Slave/Token Passing communication mode.
- The MSnet port can work with control panels MST20V, MST20S, DSP20 or other MODBUS RTU Master or Slave device.
- The 12 bit universal input (UI) takes dry contact, pulse, 3K or 10K NTC thermostat, 4~20mA, or 0~10VDC input.
- Digital output (BO) is a 0.5A/24VAC Hot-Switched Triacs with a status LED.
- High precision air pressure differential sensor, sense on either direction, measure at low air flow rate, fully IC packed to prevent dust pollution.
- Calibrate function in BACsoft for advantage of adjustment at site when air flow is stable.
- Carry out calculations such as proportional, integral, differential, floating, logic, arithmetic and etc.
- 100 Binary Value (BV) and 100 Analog Value (AV) points, the analog value adopts high precision floating-point calculation.
- Standard floating point operation for analog point. Its large value range save additional work for ratio multiplication.
- 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.
- Can be edited online, download control logic program, and stored in flash memory, the program does not disappear because of long power outages.
- Support online real-time application debugging, greatly reducing editing time programmable logic.
- Mining slide design, space-saving, easy installation, plug-in terminal design adopted, with communication and device status lights for easy troubleshooting
- Technical staff in the field to adjust the air flow balance to compensate for variable air volume boxes installed or not the same type of error caused by.

【Specification】

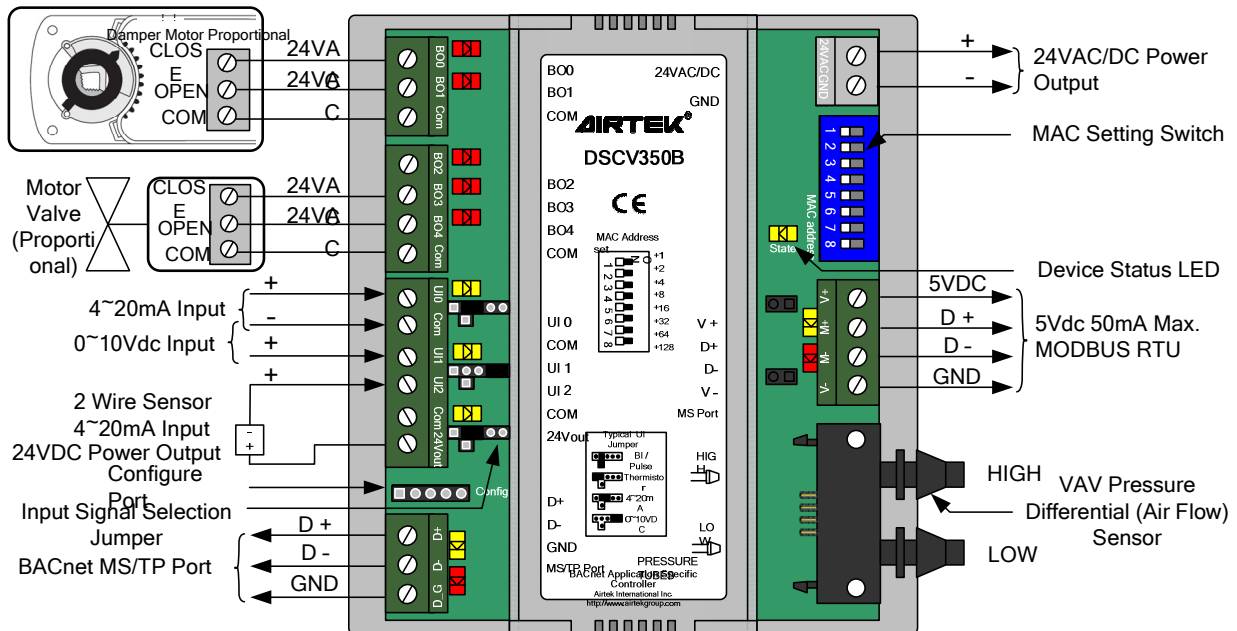
Model	UI	BO	AO	Description
DSCV350B	3	5	0	Can connect to MST20V, MST20S, or DSP20U control panel

Power Supply	: 24VAC/VDC, 5VA.
Microprocessor	: 32-bit high performance MCU, 10K RAM, 8K FRAM and 64K Flash memory.
Analog Input (UI)	: 12-bit resolution, jumper selectable input signal type for 3K, 10K ohm NTC thermistor, 4~20mA or 0~10VDC.
Binary Output (BO)	: 0.5A/24VAC hot-switched triacs.
Pressure Sensor	: ± 500 Pa pressure differential sensor. Accuracy is $\pm 3\%$ of measure value.
Auxiliary Power	: Provide 24VDC/60mA power output for sensor application.
Supply	
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, MST20S, or DSP20U.
Environment	: 0~70°C, 0~95%RH, non-condensing
Certification	: EMC Directive 89/336/EEC (European CE Mark).

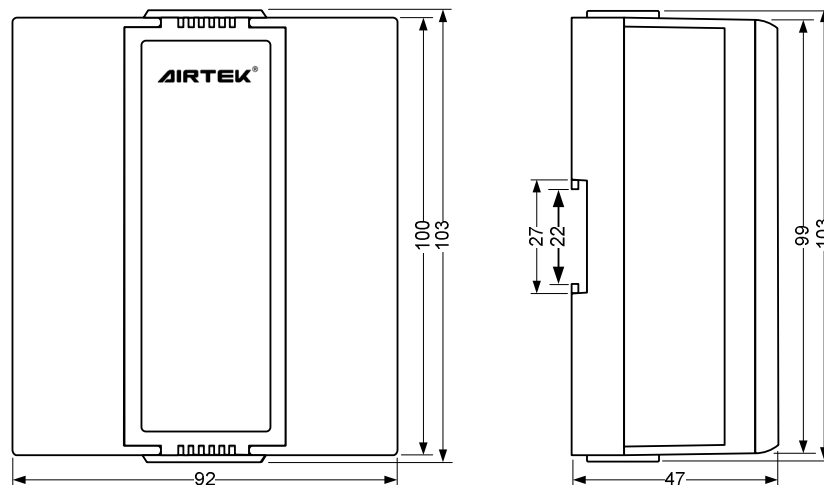
【Network】



【Wiring】



【Dimension】 Unit : mm



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