

BACnet Field Control Device

BACnet VAV Controller

DACV403B

【Description】

DACV403B is a BACnet B-AAC 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 analog input signal can be 4~20mA or 0~10VDC. Its EIM port can connect 4 EIM modules. Total number of I/O points can be selected by using different combination of EIM. DACV403B has an user interface device port. This MSnet port can connect to a LCD control panel for user control and monitor the system. DACV403B conforms international BACnet MS/TP communication protocol and fully compatible with any BACnet system.



【Features】

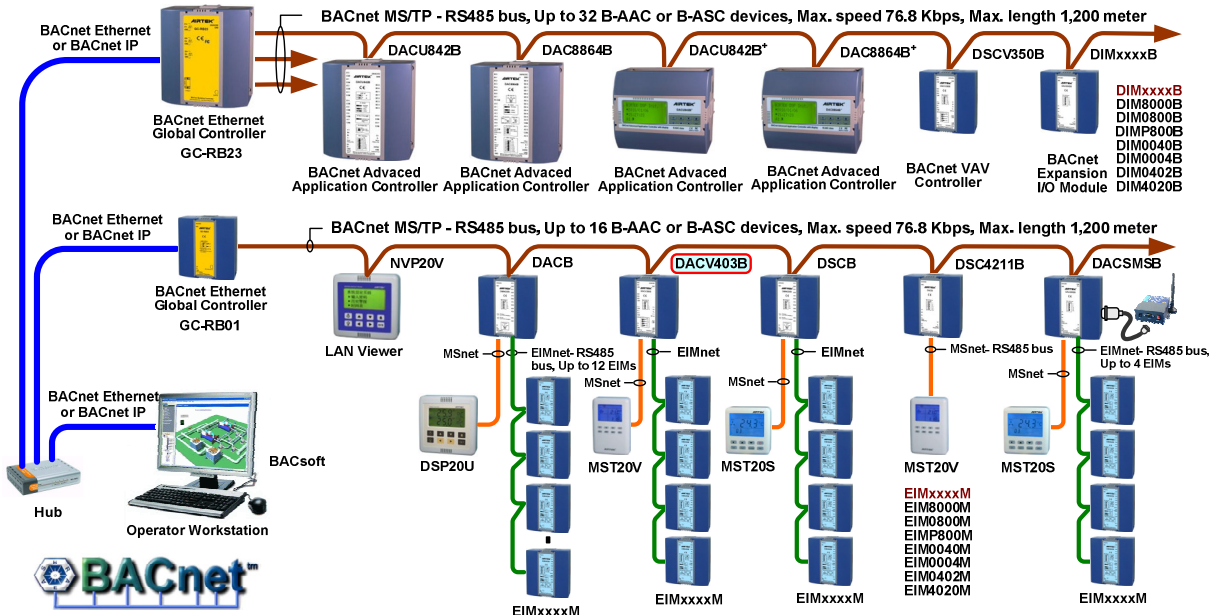
- Conforms to ASHRAE and ISO16484-1 defined BACnet AAC standard communication protocol, compatible with BACnet system.
- Uses Peer-to-Peer MS/TP communication system.
- The MSnet port can work with control panels MST20V, MST20S, DSP20 or other MODBUS RTU Master or Slave device.
- The EIM port can connect up to 4 EIM I/O expansion modules.
- 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.
- User's control program can be downloaded, edited and saved in flash memory of the controller.
- Real-time debug function, save programming time.
- Carry out calculations such as proportional, integral, differential, floating, logic, arithmetic and etc.
- 150 BV and 150 AV points.
- Real-time clock, 2 Calendars, 12 Schedules, 4 Notification Class, 20 Event Enrollments standard BACnet object. Schedules and event enrollments support external object access function.
- Standard floating point operation for analog point. Its large value range save additional work for ratio multiplication.
- The analog value adopts high precision floating-point calculation.
- Provide power failure backup function for all AI/BO/BV/AV values keep in FRAM for at least 10 years.
- Priority control array by 16 for all BO and BV points.
- Slide track design for space-saving and easy installation.

【Specification】

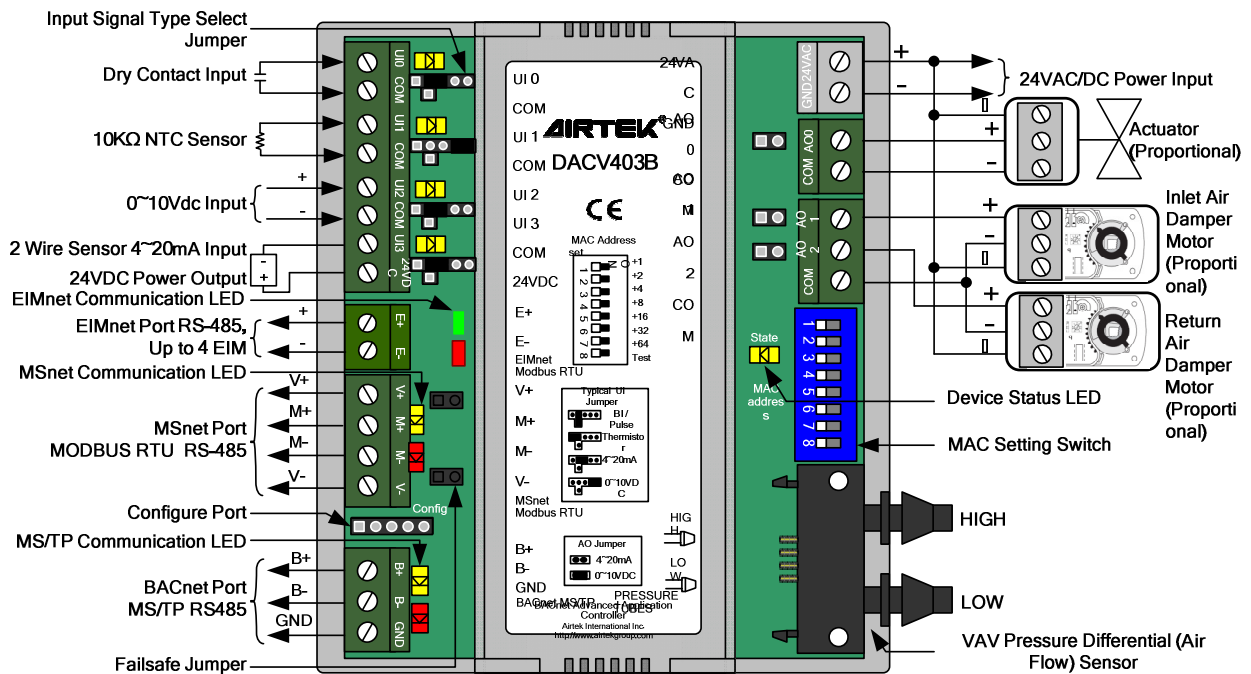
Model	UI	BO	AO	EIM	Note
DACV403B	4	0	3	4	Schedule, Alarm, R/W other devices available

Power Supply	: 24VAC/VDC, 5VA (Minimum load)
Microprocessor	: 32-bit high performance MCU, 64K RAM, 32K FRAM and 384K Flash memory.
Analog Input (UI)	: 12-bit resolution, jumper selectable input signal type for 3K, 10K ohm NTC thermistor, 4~20mA or 0~10VDC.
Analog Output (AO)	: 12-bit resolution, jumper selectable output signal type for 4~20mA or 0~10VDC.
Pressure Sensor	: ±500Pa pressure differential sensor. Accuracy is ±3% of measure value.
Auxiliary Power Supply	: Provide 24VDC/60mA power output for sensor application.
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).

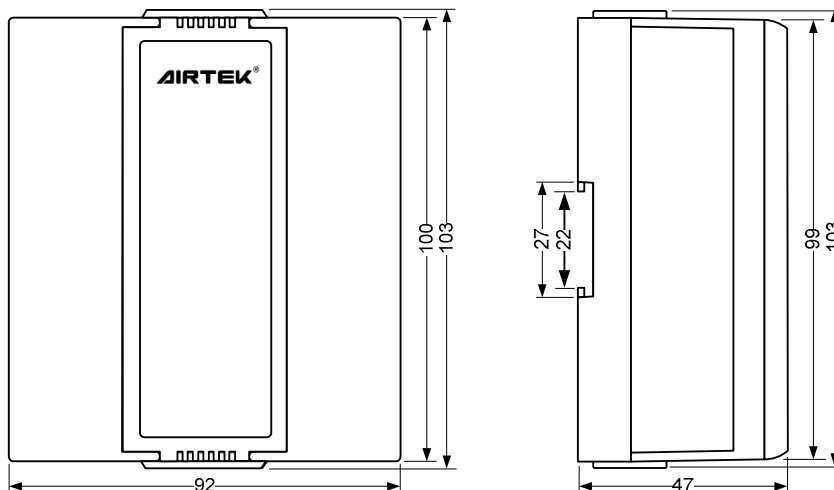
[Network]



[Wiring]



[Dimension] Unit : mm



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