BACnet Field Control Device

BACnet Application Specific Controller

DSCU842B

[Description]

DSCU842B is a standalone BACnet B-ASC class programmable controller with a LCD control panel. It is designed for monitor and control building electromechanical device, large AHU, clean room, fume hood, large-scale end device control. It uses 32-bit microprocessor core, transmission rate up to 76,800 bps, transmission distance up to 1,200 meter. DSCU842B has 8 Universal Inputs(UI), 4 Binary Outputs(BO) and 2 Analog Outputs(AO). In addition it also has MSnet port can connect a external LCD screen control panel, for field engineer easy operation and access. DSCU842B conforms to international BACnet MS/TP communication protocol and fully compatible with any BACnet system. It is absolutely the best product for your building.



[Features]

- Conforms to ASHRAE and ISO16484-1 defined BACnet AAC 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.
- With a MSnet port can connect MST20V, MST20S, DSP20U control panel or MODBUS Master or Slave devices.
- Universal Input (BI) has 12-bit resolution, accept dry contact, pulse, 3K or 10KΩ NTC thermistor, 4 ~ 20mA or 0 ~ 10VDC signal.
- Binary Output (BO) has a 1,000 VDC optical coupling isolation, 8A/250VAC/SPST relay (Relay), Status Indicator design.
- Analog Output (AO) has 12-bit resolution, can be selected by DIP switch or Internal parameters as 0 ~ 10VDC / 2 ~ 10VDC or 0 ~ 20mA / 4 ~ 20mA output signal.
- 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, the analog value adopts high precision floating-point calculation.
- Priority control array by 16 for all BO, AO and BV.
- Provide power failure backup function for all AI/BO/AO/BV/AV values keep in FRAM for at least 10 years.

[Specification]

Model	UI	DO	AO	Binary Value(BV)	Analog Value(AV)
DSCU842B	8	4	2	100	100

Power Supply : 24VAC/VDC, 5VA.

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

Universal Input (UI) : 12-bit resolution, accept dry contact, pulse, 3K or $10K\Omega$ NTC thermistor, $4 \sim 20mA$ or $0 \sim 10VDC$.

Pulse signal to accept the largest 100HZ open collector or dry contact input

Binary Output (BO) : 8A/250VAC, no voltage SPST contacts.

Analog Output (AO): 12-bit resolution, dip switch selection for 4~20mA or 0~10VDC output.

Auxiliary Power : Provide 24VDC/160mA power supply for sensor.

MS/TP Port : Two-wire RS-485 network transmission rate 9,600 / 19,200 / 38,400 / 76,800 bps automatic adjustment.

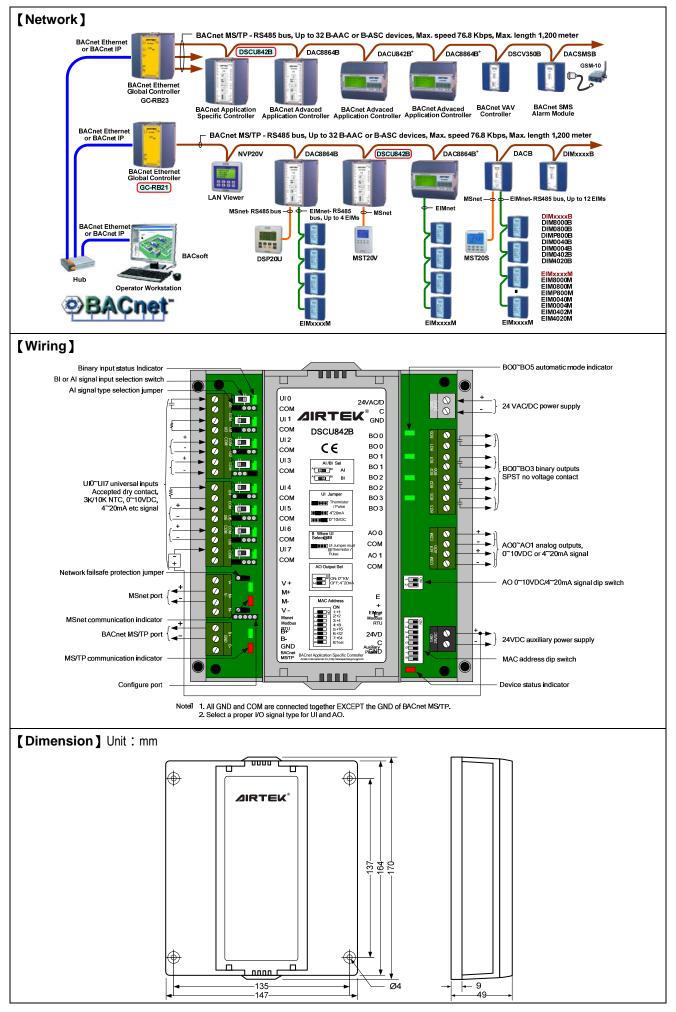
MSnet Port : A MODBUS RTU RS-485 network transmission rate 9,600 / 19,200 / 38,400 bps adjustable, can connect

MST20V, MST20S, DSP20U control panel or MODBUS Master or Slave devices.

Environment : $0 \sim 70^{\circ}$ C, $0 \sim 95$ %RH, non-condensing

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





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