BACnet Field Control Device

BACnet MSTP SMS alarm module

DACSMSB

【Description】

DACSMSB is a standalone BACnet MSTP B-AAC class programmable controller that can also send and receive SMS text messages via 4G GSM network. It is BTL approved and certified therefore it is fully compatible with any BACnet system. The DACSMSB can receive any BACnet notification from any device on the network and send the message to up to 10 preset cellular phones. Messages can be sent in a preset time zone and sent to a specific person according to the notification number. Messages can be sent to the controller for remote control of digital (Bo) and Analog (Ao) Outputs with a confirmation text back feature.

【Features】

- Conforms to ASHRAE and ISO16484-1 defined BACnet B-AAC standard communication protocol, compatible with BACnet system.
- A MS/TP(Master-Slave/Token-Passing) communication interface, with Peer to Peer function, can read and write to other DDC's issuing a read (DS-RP-A/DS-RPM-A) and write (DS-WP-A) BACnet object properties commands.
- A MSnet Lan can connect a MST20V, MST20S, DSP20U, DST35U, DST28V control panel or a MODBUS RTU device.
- An EIMnet Lan can connect up to 4 x EIM I/O expansion modules.
- A RS-232 communication interface specializes for GSM module connection by AT command.
- PIN code input mode available if necessary to input SIM PIN code.
- Dual system of GSM 900/1800MHZ, applicable for most regions.
- Support 160 English characters (contains alarm time and status).
- Connect to GSM module by RS232 cable for remote location of Arial to achieve a better cell phone signal.
- 2 Calendars, 10 Schedules, 10 Notification Class, 20 Event Enrollments standard BACnet object. Read or write 20 external devices with maximum 100 points.
- Automatically send message of the BACnet notification to 10 preset cellular phones. Message can be send in a preset time zone and send to a specific person according to the number of notification.
- A Configuration Port for setting and debug with AT command.
- 150 AV and 150 BV points, 20 message commands. 10 phone numbers, 10 notification number for different receivers. 1 set of PIN code setting, 1 set of message setting code. Provides information about quality of signal, error code, error message, total messages in the waiting list.

【Specification】

Model	EIM Q'TY	Possible Max. Points					Calendar	Schedule	Notification	Event	BV Points	AV Points
		BI	PI	AI	BO	AO						
DACSMSB	4	32	32	32	16	16	2	12	4	20	150	150

Power Supply : 24VAC/VDC, 2VA.

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

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.

MSnet Port : 2-wire MODBUS RTU RS-485 bus, communication speed 9,600 bps, can connect a MST20V, MST20S, DSP20U, DST35U, DST28V control panel or a MODBUS RTU device, maximum length 100 meters.

EIMnet Port : 2-wire AIRTEK RS-485 bus, communication speed 38,400 bps, max. length 1,200 meters, up to 4 EIMs.

GSM Port : RS-232 DB-9 male connector, support peer-to-peer communication, communicate with GSM module by AT Command.

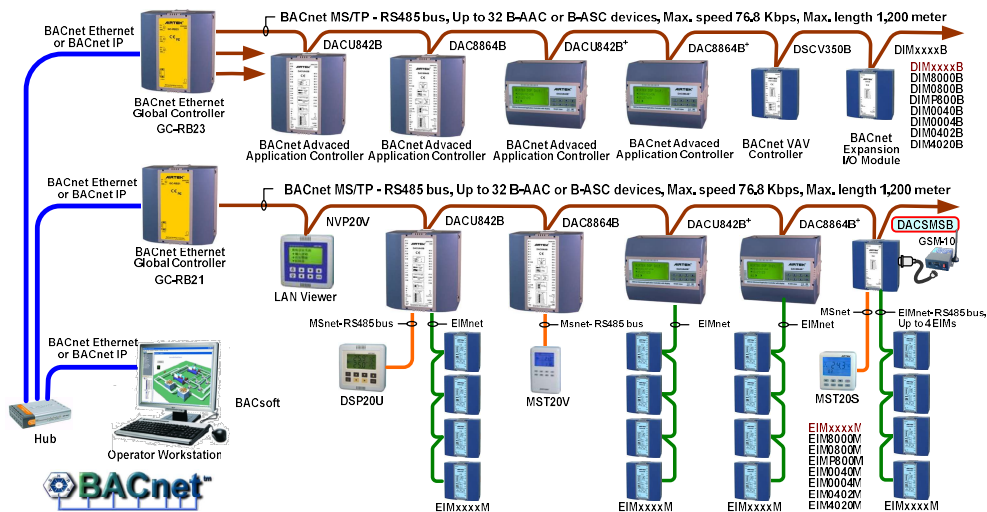**Envirenment** : 0~70℃, 0~95%RH, non-condensing.

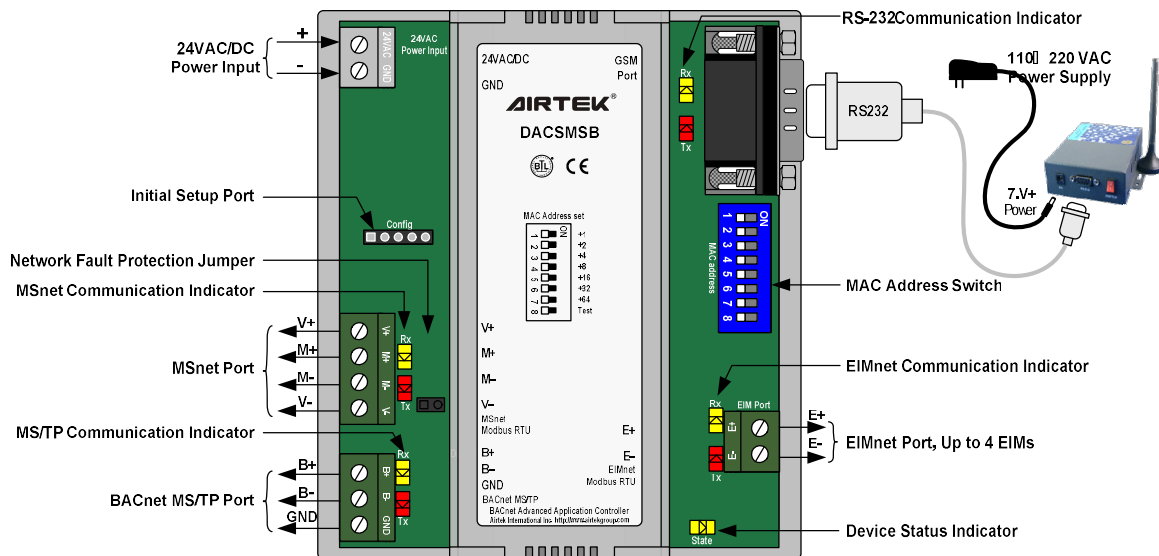**Certification** : BTL, E MC Directive 89/336/EEC (European CE Mark).

【Accessories】

GSM-10…4G GSM module, Power Supply 5 ~ 24VDC,200mA, size 105x115x33mm。

A80………Antenna, size ψ30x110mm。

AIRTEK®

【Network】

【Wiring】

【Installation】

- A GSM module is included in the SMS alarm module. SIM card and cell phone are not included.
- The GSM module should be installed at location with good wireless signal.
- Standalone or work with BACnet B-AAC or higher class controller when it has alarm function. For example, assign alarm message of AIRTEK DAC or GC-RB serial device to the device number of DACSMSB.

【Dimensions】 Unit：mm