Field Control Layer Device

BACnet MS/TP SMS alarm module

DACSMSB

【Description】

DACSMSB is a BTL listed standalone BACnet B-AAC class programmable alarm message sending controller. It helps user to monitor their control system at anywhere all the time by getting the alarm message right on it happened. By this way, users can improve its man power efficiency and safety of the control system. DACSMSB get BACnet notification from any device in the network and send this message to up to 10 preset cellular phones. DACSMSB Message can be sent in a preset timezone and send to a specific person according to the number of notifications. DACSMSB can send English, traditional Chinese, or simplify Chinese. It conforms international BACnet MS/TP communication protocol and fully compatible with any BACnet system.

【Features】

- Made in accordance with the BACnet communication protocol established by the American Heating, Refrigeration and Air-Conditioning Association (ASHRAE), and passed the BTL B-AAC level certification.
- With peer-to-peer data transmission and sharing functions and the ability to read and write external controller objects, it can read single or multiple data (DS-RP-A/DS-RPM-A) and change the value setting (DS-WP-A).
- Built-in 32-bit microprocessor 64K SRAM, 32K FRAM and 384K Flash memory.
- Built-in MS/TP master and servant token communication interface, with 2,500Vrms anti-interference potential isolation.
- Built-in RS-232 communication interface, through the AD-Linker connection line and hyper terminal machine program, the initial value of the equipment can be set or parameter modification.
- Built-in GSM communication interface to connect a dedicated GSM short message module, support RS-232 communication format and AT Command command execution.
- The 4G (LTE) system is adopted, and the PIN code input mode can be selected, which is suitable for the SIM card that needs to input the PIN code.
- It can support traditional Chinese (BIG5 code) or simplified Chinese (GB code) messages. The message content can be up to 20 Chinese characters or a mixture of Chinese and English in Chinese mode, and 60 pure English characters in English mode (including texts such as alarm time and alarm status).
- The content of the received BACnet notifications is automatically sent according to the preset mobile phone numbers of up to 10 groups. The sending period can be selected according to the schedule setting, and the number of the alarm notification determines the recipient.
- With online program editing, debugging, online program download and online firmware update functions.
- It has common function calculation functions such as enthalpy value, dew point temperature, PID control, and advanced mathematical function calculation functions such as logarithm, trigonometric function, and root sign.
- With BACnet standard objects such as Calendar, Schedule, Notification Class, Event enrollment, etc.; Timetable and alarm event registration support external object access functions.
- It has 150 digital software points (BV) and 150 analog software points (AV), which can be used as calculation values, set points, timers or warning points, etc. Among them, 20 groups of text message command control, support text message commands, can query or set values through text messages, 10 groups of text message objects, 10 groups of text message receiving notification number selection, 1 group of Pin code setting control, 1 group of message center setting control, 1 group of language selection , Can display the signal quality, abnormal code, abnormal message, and the number of unfinished transmission messages.
- It has a hardware clock with a gold capacitor for continuous power backup design, which can provide normal operation of the clock after power failure.

【Specification】

Model	EIM Q'TY	Calendar	Schedule	Notification	Event	BV Points	AV Points
DACSMSB	12	2	12	4	20	150	150

Power Supply：24VAC/VDC, 4VA.

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

MS/TP Port：RS-485, anti-interference isolator with rated isolation voltage of 2,500Vrms and 560Vpeak, 32 controllers, the communication rate is 9,600/19,200/38,400/76,800 BPS, 1,200 meters.

MSnet Port：RS-485, can be connected to a control panel, communication rate 9,600/19,200/38,400 BPS, The transmission distance is 1,200 meters.

EIMnet Port：RS-485, communication speed 38,400 bps, max. length 1,200 meters, up to 12 EIMs.

GSM Port：RS-232 DB-9 male connector, support peer-to-peer communication, communicate with GSM module by AT Command.
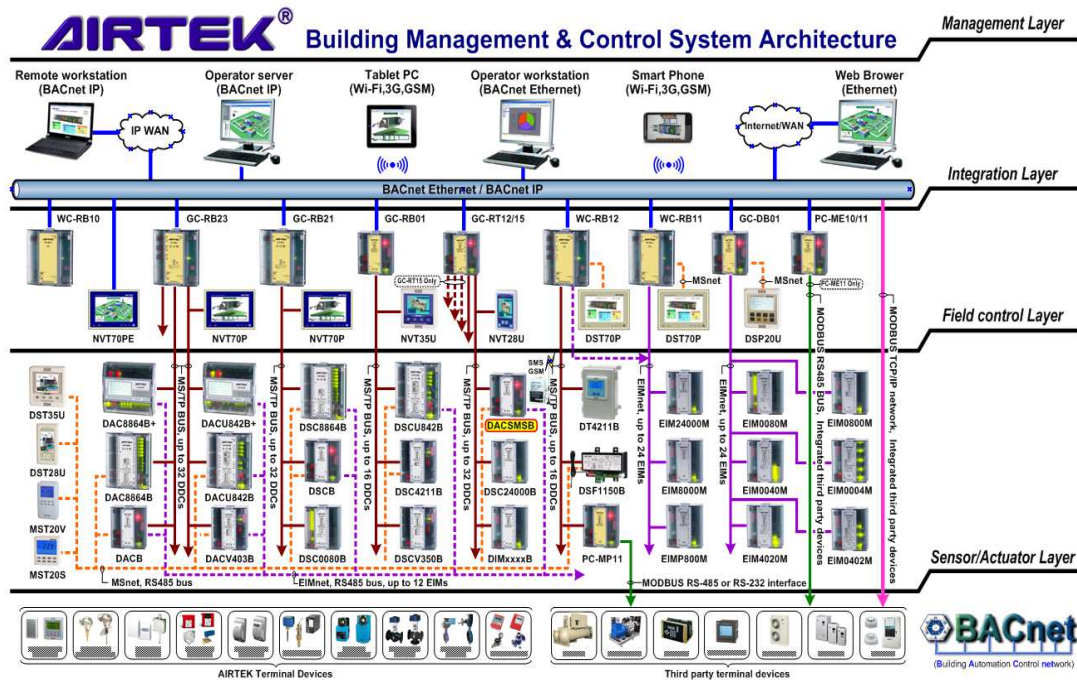
Environment：0~50℃, 5~95%RH, non-condensing.
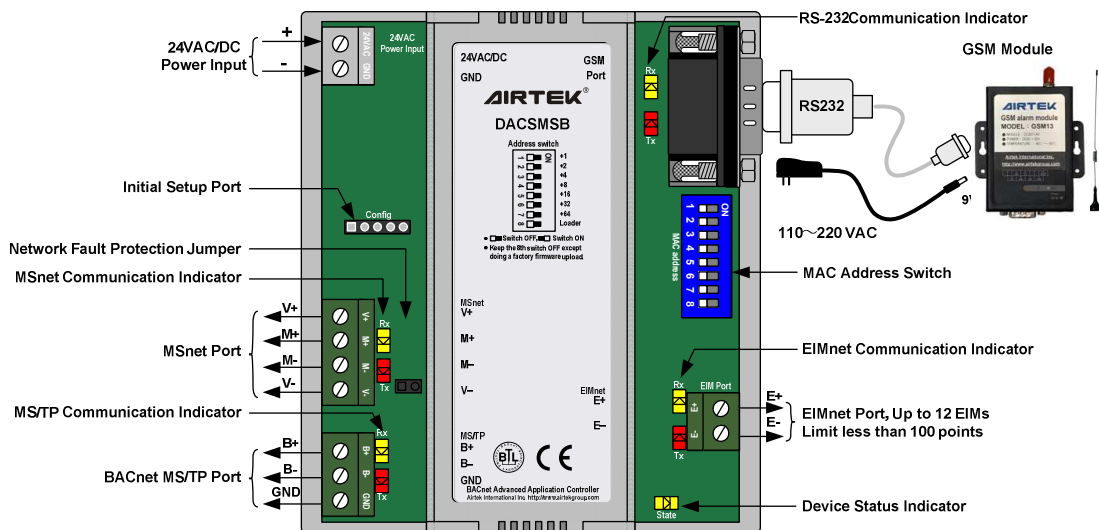
Certification：CE, BTL, RoHS

【Accessories】

GSM13...(4G) GSM module includes a set of external antenna and power supply.

AIRTEK

【Network Architecture】

AIRTEK® Building Management & Control System Architecture

【Wiring Diagram】

【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.
- Stand alone or work with BACnet B-AAC or higher class controller when it has an alarm function. For example, assign the alarm message of AIRTEK DAC or GC-RB serial device to the device number of DACSMSB.

【Dimensions】 Unit：mm