

BACnet Integration Level Device

BACnet Ethernet Global Controller

GC-DB01

【Description】

GC-DB01 is a standalone B-BC class BACnet LAN communication integration controller. It is designed for monitor and control building electromechanical device, large AHU, clean room, fume hood, large-scale end device control. It has a 32 bit microprocessor and works with the EIM I/O extension modules. Its EIM port can connect 24 EIM modules with any combination of these different types of EIM modules. GC-DB01 also provides user and user interface device port. The MSnet port can connect to a LCD control panel for user control and monitor the system. GC-DB01 is a programmable device. It conforms international BACnet network communication and fully compatible with any BACnet system. GC-DB01 has schedule, calendar and the event enrollment functions.



【Features】

- In conformity with BACnet MS/TP, BACnet Ethernet ISO-8802-2, BACnet/IP protocol formulated by ASHRAE fully compatible with any BACnet system.
- BACnet B-BC level standard compliant controller plus the network router function.
- Use 32-bit high performance MCU, frequency 55MHz.
- 128K RAM /512KB Flash, 32K FRAM for power failure memory.
- A 100 M Ethernet port for BACnet Ethernet(ISO-8802-2) or the BACnet/IP network connection.
- One MSnet port is selectable to work with MODBUS RTU Master or Slave device or control panel MST20V or DSP20U.
- One EIMnet port for 24 EIM IO point extension modules.
- One RS-232 port. Default value of this device can be modified by using its AD-Linker wire (Airtek made) and the Hyper Terminal in the Microsoft Windows system.
- Operation functions of proportional, integration, differential, floating, logic, mathematic, enthalpy and dew point etc.
- Possessed 150 analog value (AV) points, 150 binary value (BV) points. These BV points have the priority function.
- Real-time clock, 2 Calendars, 20 Schedules, 4 Notification Class, 40 Event Enrollments, 12 Trend-logs, standard BACnet object. Schedules and event enrollments support external object access function.
- On-line edited, downloaded the logic program as well as real-time program debugging function, significantly reducing the program logic the editor time.

【Specification】

Power Supply 24VAC/DC, 5VA.

Microprocessor 32-bit high performance microprocessor with 128K RAM and 512K Flash memory and 32K FRAM as power failure memory

Ethernet Port A 10/100M Ethernet with BACnet Ethernet(ISO-8802-3) communication protocol

MSnet Port One MODBUS RTU RS-485 port, selectable communication speed 9,600/ 19,200/ 38,400bps, selectable to work with MODBUS RTU Master or Slave device or control panel MST20V or DSP20U.

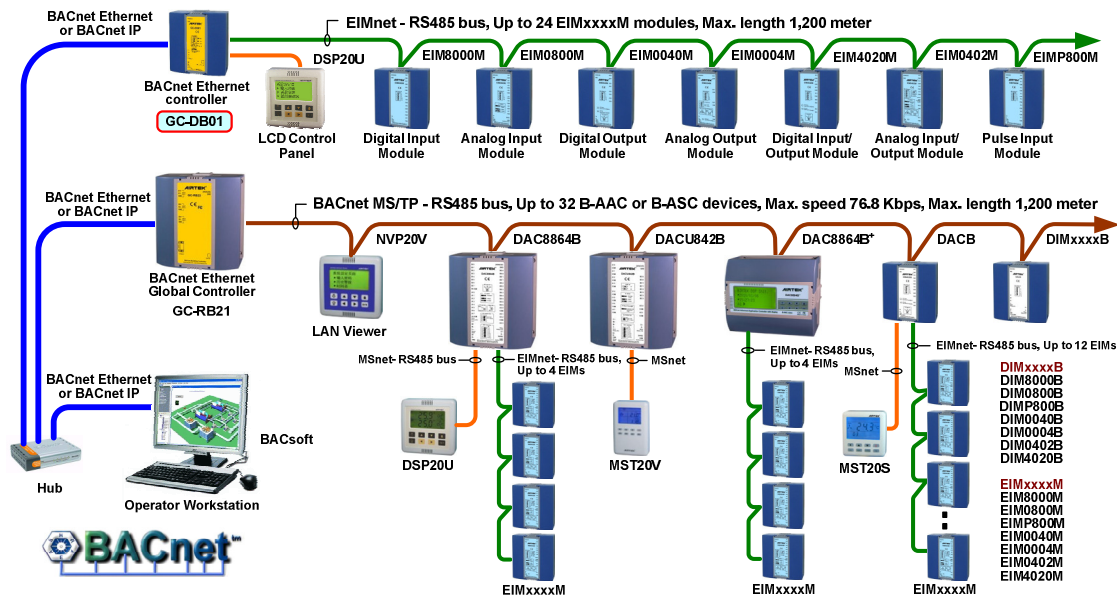
EIMnet Port One RS-485 port, communication speed 38,400bps, works with 24 EIM I/O point extension modules.

Clock A gold capacitor to back up clock for 48 hours after power failure

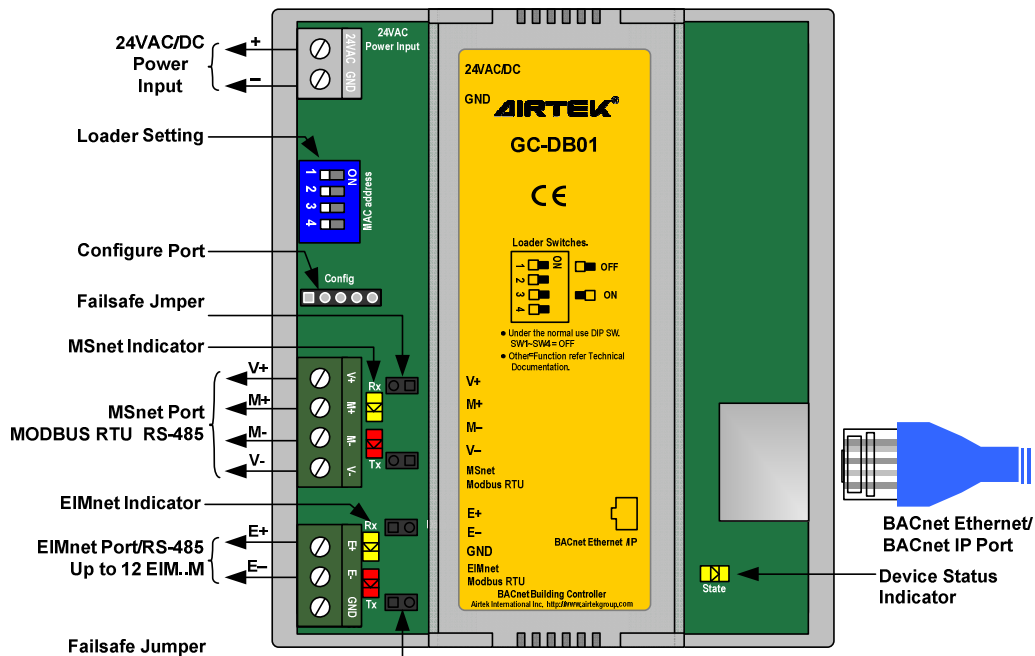
Environment 0~70℃ , 0~95%RH, non-condense

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

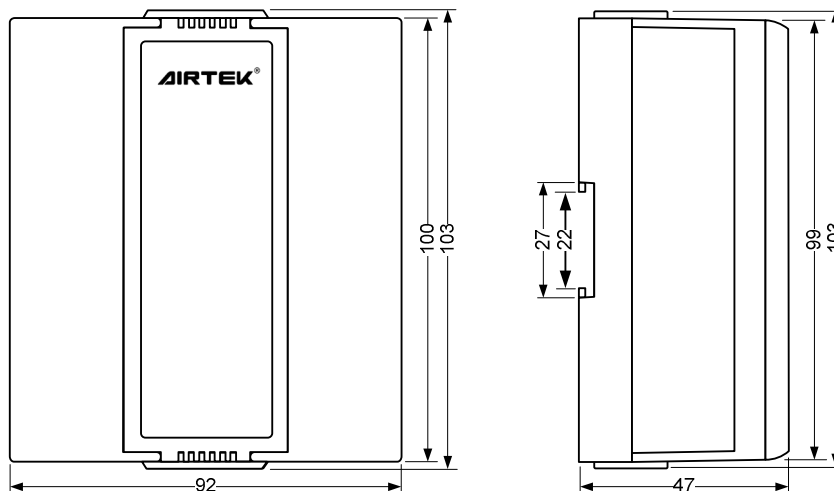
【Network】



【Wiring】



【Dimension】 Unit : mm



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