Access System Manager

ASM-24E

Description
The Delta ASM-24E is a fully programmable, native BACnet® Building Controller that communicates on Twisted-Pair Ethernet 10-BaseT using BACnet IP or BACnet over Ethernet, or on an RS-485 LAN using the BACnet MS/TP protocol. It is an intelligent controller specifically designed for access control applications. This controller provides access control capabilities through a network of door modules which act as extended I/O to the Access System Manager.

Features
▶ Supports BACnet MS/TP protocol

▶ BACnet IP and BACnet over Ethernet capabilities

▶ Database backup via non-volatile flash memory

▶ Fully programmable in GCL+

▶ Easy-to-mount housing

▶ Application database and firmware can be loaded over the network

▶ Operation of the card access system is completely contained in the controller, no PC required for operation

▶ Can be powered from a 12 VDC battery in the event of a power failure

▶ LED indicator for power, CPU and SCAN status

▶ Can be paired with the DFM-1616 I/O expansion module for elevator control

Application
The ASM-24E provides access control of multiple doors. Up to 12 2-door modules (ADM-2W704) can be connected to an Access System Manager via LINKnet. The Access System Manager can hold a maximum of 10000 cardholders and 2000 events.

The ASM-24E provides easy-to-configure alarms for system monitoring and annunciation of card-access events and alarms.

Programming the access control system is easy and intuitive because the programming is object orientated. Standard I/O and objects are created automatically and can be modified. GCL+ can be used for advanced custom programming and integration.

Specifications

BACnet Device Profile
BACnet Building Controller (B-BC)

Device Addressing
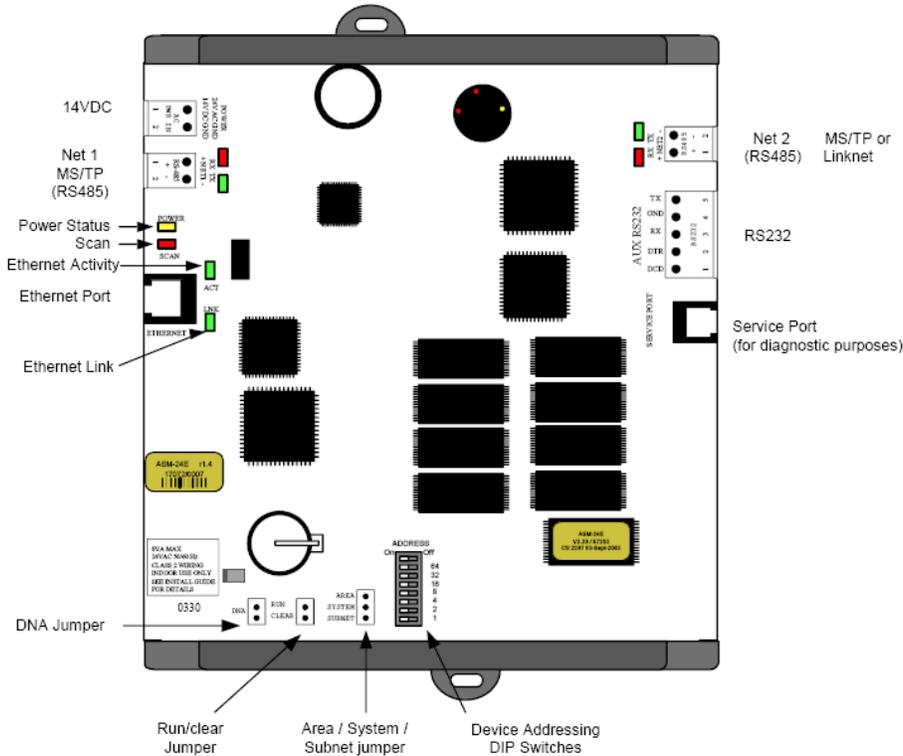Set via DIP switches and jumpers or software setup

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2

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Access System Manager

ASM-24E: Board Layout Diagram

Labels on diagram:
- 14VDC
- Net 1 MS/TP (RS485)
- Power Status
- Scan
- Ethernet Activity
- Ethernet Port
- Ethernet Link
- DNA Jumper
- ASM-24E r1.4
- Net 2 (RS485) MS/TP or Linknet
- AUX RS232
- RS232
- Service Port (for diagnostic purposes)
- ADDRESS
- Run/clear Jumper
- Area / System / Subnet jumper
- Device Addressing DIP Switches

Ordering

ASM-24E	Controller with housing, communicates on a BACnet MS/TP LAN, max 10000 card users

Accessories

ADM-2W704	Delta Controls 2-door access module
DFM-1616	LINKnet module, housing, 16 universal inputs, 16 analog outputs with HOA
UL864-DFM-1616	DFM-1616 with UL 864 listing

Specifications (Continued)

Power
10 to 15 VDC @ 0.25 A (from ADM-2W704) or
24 VAC 50/60 Hz @ 8 VA

Technology
16-bit processor
2 MB (16-megabit) flash memory
2 MB SRAM database memory
Real-time clock with lithium-ion battery
for clock and SRAM backup

Communication Ports
Main LAN (NET1)
BACnet MS/TP @ 9600, 19200, 38400 or
76800 bps (default), max of 99 devices
per BACnet MS/TP network

SubLAN (NET2)
Delta LINKnet @ 76800 bps, max 12
Delta 2-door ADM-2W704 module
devices per controller

Twisted-pair Ethernet (10-BaseT) @
10 MB (optional), BACnetIP, BACnet over
Ethernet

Serial RS-232 BACnet PTP @ 9600
(default), 19200 and 38400 bps

Ambient
32º to 131ºF (0º to 55ºC)
10 to 90% RH (non-condensing)

Dimensions
5.75 x 8.25 x 2.25 in. (14.6 x 21 x 5.6 cm)
with housing

Weight
0.75 lb. (342 g) with housing

Compliance
CE
FCC

Listings
UL 294 Listed (3.30 Firmware only)

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Subject to change without notice.

Delta CONTROLS™