EntroStar Panel

NATIVE BACNET TECHNOLOGY

EntroStar™ is the world's first PoE/PoE+ native BACnet® access control panel, offering true open connectivity for diverse applications. Designed to communicate with any ANSI/ASHRAE 135-2010 compliant system, the EntroStar enables seamless integration of access control, security, and building management systems.

Each EntroStar controller supports two doors with combinations of magnetic locks and electric strikes/releases and up to four Wiegand compatible readers without the need for a local power supply[1]. The panel can be installed directly or housed within a metal enclosure with an optional 15VDC power supply. The unit can also provide local battery back-up charged by the PoE/PoE+ supply.

With innovative features for self-configuration and network discovery, EntroStar access control panels offer simple connection and interface to StarWatch systems.

KEY FEATURES

- Auto-discovery of panels across disparate networks

- Automatic issuance of IP addresses, static or DHCP

- Built upon standards-based BACnet protocol

- PoE/PoE+ design powers 2 locking devices and 4 readers, eliminating need for external power supply

- 4-state alarm monitoring

- Innovative status indication LEDs and icons reduce installation and configuration time

SIMPLIFIED INSTALLATION

EntroStar panels are specifically designed to facilitate ease of installation and configuration, typically cutting total deployment time in half. RJ45 jacks are used for door reader connections, allowing standard CAT5 FTP cabling for both readers and communications.

Innovative diagnostic LEDs allow complete local commissioning without the need for special tools or even a laptop. With the inclusion of rapid auto-discovery features for "plug and play" functionality, EntroStar technology signifies a paradigm shift in installation simplicity.

[1]current total not to exceed PoE/PoE+ specifications

STARWATCH

SMS

FACILITIES

Connects to 3rd-party BACnet compliant systems

Powers 4 readers, 2 locks via PoE+
- Up to 2 doors, reader IN/reader OUT, per control panel
- Up to 2 bidirectional turnstiles per control panel

Plug and play network connection

Card Capacity and Event Buffer
- Up to 100,000 cards and 100,000 events as standard

Designed to UL 294 and 1076

Input/Output
- Up to 9 off monitored digital inputs, 4-state supervised
- 1 optical tamper
- Up to 4 output relays, N/O contacts rated 2A @ 30VDC

Unique status indication system

ADDITIONAL FEATURES

Micro SDHC card support

USB 2.0 interface

128 bit encryption

FIPS 201 compliant

ENVIRONMENTAL

Operating	• -40 to +70°C
Storage	• -40 to +70°C
Humidity	• up to 93% non-condensing at 40°C
EMC	• BS EN 55022, BS EN 50082-1
Dimensions	• 8.5 in x 5.25 in

TECHNICAL DATA

Processor	• 200 MHz ARM 9
Memory	• 32/64/128 MB RAM, 256 MB Flash
Operating System	• Linux
Database	• SQL Lite
Supported Protocol	• Native BACnet (ANSI ASHRAE 135-2010)
Host Comm	• 10/100 Ethernet auto-switching

ELECTRICAL

PoE/PoE+ (IEEE 802.3at/IEEE 802.3af)

PoE/PoE+ power consumption: 3.5W (EntroStar only)

Supply
- PoE: 12.9W (min) 15.4W (max)
- PoE+: 25.5W (min) 34.2W (max)
- DC: 14V (+10%/-25%) 50W (max), note: DC input incorporates reverse polarity protection

Power Available for External Equipment
- PoE: 7.2W (min) 9.6W (max) total
- PoE+: 17.7W (min) 26.4W (max) total
- DC: 45W (max) total
- Note: each Output A/Output B pair is limited to 800mA (PoE/PoE+) and 1.5A (DC), each reader port is limited to 500mA @ 25°C derated to 300mA @ 70°C

Battery
- Type: lead-acid
- Voltage: 12V
- Capacity: 7Ah (recommended)
- Note: battery charge times extended when using a larger capacity battery, battery connection incorporates reverse polarity protection

CONTACT

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