

Host-Based Card Reader System



Centralized Control

Now you can centralize your contract parking operations for tighter control – even when your facilities are across town or across the country. The ScanNet™ Central Management System allows you to manage and control your card access readers easily and efficiently from the well-known Windows environment. Host-Based readers can be programmed from the central computer, which

provides real-time system, alarm and activity reporting.

ScanNet Access Control

The Access Control System (ACS) in the ScanNet System allows you to setup Credentials that will allow patrons and vehicles to enter and/or exit a facility. A Credential is an instrument, such as an access card or AVI tag, that uniquely identifies the patron. When a Credential is setup, the system automatically places the ID information in all associated Host-Based Readers. The Access Control System allows you to associate the Credential with a patron and/or vehicle – allowing you to assign each to an account for billing and tracking purposes.

Host-Based System

The ScanNet Host-Based system processes requests from readers to grant or deny access. The Host-Based System also checks Credential validity, provides system wide anti-passback features, time/space analysis, group control, and other information. Integrated with the

Host-Based System is a billing and invoicing system with an accounts receivable system that allows you to enter/edit payments and charges, generate an aged trial balance, generate account and transaction reports, and setup accounts.

The account receivable and billing system can be integrated with a general ledger system. The billing system manages individual accounts and corporate accounts.

Passport Plus® Host-Based Reader

The optional Passport Plus Host-Based readers can be linked together as part of a computerized, on-line facility management system, or used independently as off-line devices. These intelligent readers give you the security you need with an advanced distributed processing architecture, ensuring continual and independent operation at all times.

A range of identities can be programmed as monthly cards where decisions such as ID-status, time zones, and issue levels are made at the reader and do not require centralized control from the ScanNet System. The Host-Based portion must be on-line to operate correctly. The programmed monthly portion is limited to 16,000 IDs when working off-line.

Passport Plus is a registered trademark of Federal APD, Inc.

Features:

- Central computer control of card readers through the powerful ScanNet Central Management System
- Variety of technologies available:
 - Proximity • Wiegand
 - Bar Code • Magnetic Stripe
 - Dyna Read™ (barium ferrite)
- Readers have the ability to process and maintain programming locally
- Stores card transactions and status messages while off-line

Options:

- Intelligent Passport Plus Host-Based Card Reader with distributed processing architecture
- LCD visual display available



Computer control of access readers



FEDERAL APD

Federal Signal Corporation

Host-Based Card Reader

Specifications

1. Purpose

The Host-Based Card Reader shall be a microprocessor-based Card Reader that reads data from access cards and sends the data to Host-Based in the ScanNet Central Management System, which is installed on a central computer. ScanNet determines whether access should be granted or denied and sends the information to the Card Reader which shall provide a vend signal that allows a door lock, barrier gate, or other control device to allow access.

2. Features

- a. The Host-Based Reader shall be capable of on-line communication with Federal APD's ScanNet Central Management System.
- b. The Host-Based Card Reader shall have the ability to process and hold all of its programming locally.
- c. All programming shall be accomplished through the ScanNet System.
- d. The Host-Based Card Reader shall be capable of determining if an access card is within the range of valid IDs, and it shall send the card data to ScanNet.
- e. The Host-Based Card Reader shall be capable of storing a limited number of card transactions and status messages while off-line.

3. Dimensions

- a. Dyna Read head shall be 3 inches W x 4.5 inches H x 3 inches D (76 mm W x 114 mm H x 76 mm D).
- b. Passport Plus logic module shall be 5.8 inches W x 1.125 inches H x 4 inches D (147 mm W x 28 mm H x 102 mm D).
- c. Power Supply shall be 5.6 inches W x 2.4 inches H x 5 inches D (142 mm W x 60 mm H x 127 mm D).
- d. Gooseneck stand shall consist of 2-inch (51 mm) tubing with a height of 35 inches (889 mm) from base to center of the gooseneck stand enclosure mounting plate. When mounted on a 6-inch (152 mm) curb, center of

enclosure mounting plate shall be 41 inches (1041 mm) from pavement.

4. Electrical

- a. The Dyna Read head shall operate on 0.5 Ampere at 5 VDC or 12 VDC (input).
- b. The Passport Plus Logic Module shall operate on 1 Ampere at 12 VDC (input).
- c. The Power Supply shall operate on .2 Ampere at 110 VAC input and output of 12 VDC at 1 Ampere (fused).

5. Hardware

- a. The Host-Based Reader system shall consist of the following: (1) Read head; (2) Logic Module; (3) Power Supply; (4) Interconnections between units shall be via plug-in cables; (5) The unit may optionally be mounted on a gooseneck stand.
- b. The Host-Based Card Reader shall be available with an optional LCD display.
- c. The Card Reader shall provide the following: (1) incorporate a microprocessor, on-board memory, communication port, crystal controlled time clock/clock/calendar, and status indicators on modular printed circuit boards; (2) use CMOS circuitry for minimum power consumption and maximum noise immunity; (3) contain all software and hardware necessary to attach a communication cable for communicating operations; (4) provide built-in diagnostic software and circuit indicators; (5) have two programmable outputs to allow pulsed or latched activation by selective cards; (6) have six programmable inputs for different operations, including alarm monitor, count, and output control.
- d. Programmable control features include: (1) when programmed for Inhibit in a parking application, a Host-Based Card Reader input shall perform vehicle interlock functions that shall prevent the reader from granting access unless a vehicle is present over the detector

- loops; (2) when programmed for Link, an input shall cause a reader output to return to its normal state; (3) a Count input shall allow the user to monitor the contact closure of a device and keep a count of the number of pulses. This input shall be programmable as either a logger count or an accounting count; (4) when monitoring alarm conditions, each input shall be programmable for normally open or closed contacts, have programmable delay time before recognizing alarm input conditions, have programmable messages (up to 16 characters long) which shall describe the alarm, and have a separate, programmable message (up to 16 characters long) to indicate cleared alarm condition when desired; (5) Egress input shall allow non-card access through a barrier (door or gate); (6) if programmed for Unused, the input shall not affect operations of the system.
- e. The Host-Based Reader shall store all programming in internal memory with a super capacitor memory backup and message buffer for up to one week.
- f. The read head shall meet the following standards: (1) be supplied by the card reader manufacturer; (2) be compatible with the Federal APD Passport Plus Logic Module; (3) have a maximum read head to logic module distance of 500 feet (152 meters); (4) be of Dyna Read technology with a vertical slot, be weatherproof, and use a 8-conductor harness.
- g. Passport Plus Logic Module shall be housed in an aluminum enclosure and be compatible with the operation of the read head.
- h. The Power Supply shall be a self-contained unit with fuses and be housed in an aluminum enclosure.
- i. Communication cable shall consist of a four-color, two-twisted pair, 22 gauge wire and an 18 gauge common.



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