SECTION 28 13 26.03

ACCESS CONTROL REMOTE DEVICES

PART 2 - PRODUCTS

2.01 GENERAL

A. The intelligent controller shall provide decision making, event reporting, and database storage for hardware platform. Two reader interfaces shall provide control for one door and capable of supporting up to an additional 16 doors in paired and or alternate reader configurations with peripheral interface devices.

B. The controller shall communicate with the host via on-board 10BaseT/100BaseTX Ethernet port.

C. One physical barrier shall be controlled. Each reader port shall accommodate a readhead that utilizes Wiegand, magnetic stripe, or one or two wire LED controls, and buzzer control. One reader port will also accommodate two-wire RS-485 electrical signaling standards.

2.01 TECHNICAL SPECIFICATIONS

A. Power Input

   1. Power over Ethernet (PoE) power input 12.95 watts, compliant to IEEE 802.3af
   2. Twelve volts of direct current (12VDC) ±10% 900 mA maximum power supply, 200 mA minimum power.

B. Power Output: 12 Volts DC at 650mA including reader and AUX output.

C. Reader Interface: power via PoE, 12VDC ±10% regulated or local power supply (12VDC). PTC limited to 150mA maximum.

D. Inputs: Two general purpose programmable circuit type and dedicated tamper.

E. Outputs: Two relays – Form-C, 2 Amp, 30 volts direct current

F. Readers Ports 2: One transistor-transistor logic (TTL) reader port and one TTL or 2-wire RS-485 reader port.

G. Keypad: Multiplexed with card data

H. LED: TTL, two wire or one wire bi-color support

I. Buzzer: One-wire LED mode

J. Temperature: 0 to 77 degrees Centigrade operational, -55 to 85 degrees Centigrade storage

K.   Humidity: ten to ninety-five percent (10 - 95%) relative humidity, non-condensing (RHNC)

L.   FCC Part 15 Class A, NIST Certified Encryption

2.02 TECHNICAL FEATURES

A.   Connectivity: Primary Port: 10/100 Ethernet

B.   Door Control: One physical barrier can be controlled using single or paired readers.

   1.   Two-reader ports:12VDC regulated power, 150mA maximum
      a.   Port 1: clock/data, data-1/data-0, or 2-wire RS-485 (2 devices)
      b.   Port 2: clock/data, data-1/data-0
   2.   Two (2) programmable inputs, Two (2) relays, diagnostic LEDs

C.   Access Control:

240,000 Cardholder capacity, 50,000 Transaction buffer, 32 Access Levels per cardholder, 19 digit (64-bit) user ID and 15 digit PIN numbers maximum, Activation and Deactivation dates, If/Then Macro capability

D.   Card Formats:

   1.   Eight active card formats per intelligent controller
   2.   19 digit (64-bit) User ID and 15 digit PIN numbers maximum
   3.   PIV-II, CAC, TWIC card compatible

E.   Card Reader Functions

   1.   Multiple card format support by reader
   2.   Paired reader support
   3.   Alternate reader support
   4.   Elevator support
   5.   Turnstile support
   6.   Biometric device support
   7.   Open Supervised Device Protocol (OSDP) compliant
   8.   Occupancy count
   9.   Support of multi-occupancy rules
   10. Anti-passback support
   11. Area-based, reader-based, or time based
      i. Nested area, hard, soft, or timed forgiveness
      ii. Anti-passback support, both reader and time based
   12. Supports host-based approval rules
   13. Keypad support with programmable user commands, card input
   14. Shunt relay support
   15. Strike follower relay support

F. Database Functions

1. Configurable card database
2. Supports up to nineteen (19) digital card numbers
3. Supports pin codes up to fifteen (15) digits
4. Programmable card activation and deactivation times and dates
5. Card issue code, ADA and VIP flags (up to 32 bits); PIV (75 bits); Smart Card (200 bits)
6. Up to 128 access levels per user
7. Ability to track people and objects

G. Intrusion Alarm Functions

1. Supports entry delays and exit delays
2. Area monitoring
3. Standard alarm masking
4. Provides control and alarm processing from the keypad

End of Section