

# MAXSYS®

INTEGRATED SYSTEMS TECHNOLOGY

## PC4820

DUAL READER ACCESS CONTROL MODULE



The PC4820 enhances the value of Maxsys by tightly integrating access control with Maxsys security and fire features.

Providing 2 door access control, the PC4820 provides the ultimate in security system ease of use and maximum reduction of false alarms by allowing users to arm/disarm the security system while locking/unlocking the door from outside of the protected space.

Up to 16 PC4820 modules, controlling up to 32 doors, can be added to PC4010/4020 systems via the systems 4-wire Combus using standard, unshielded station wire up to 1,000ft (305m) from the control panel .

### System Capacities

- **PC4010, PC4010CF, PC4020, and PC4020CF control panels :**
  - up to 16 PC4820 modules... for up to 32 readers
  - 1,000 access cards

### Reader Technologies Supported

- **Polaris...** mag-stripe readers & cards
- **Shadow Prox...** proximity readers & cards
- **HID...** proximity readers & cards
- **Wiegand...** standard 26 bit
- **readers may be located up to 500ft. (152m) from PC4820**
  - shielded cable always required

### PC4820 Features

- **2 reader access control**
  - 2 single reader doors or 1 door with entry/exit readers
- **flexible card holder privileges**
  - assign individual access privileges by door & by schedule
  - define user rights to permit arming & disarming by partition
  - designate "privileged" users who are authorized to validate access for "wait for privileged" users (guardian function)

- **full stand-alone operation... complete card database & all programming is maintained in the PC4820's non-volatile memory**
  - each module has its own time clock
  - in the event of power failure or PC4010/4020 system failure, each PC4820 access control module is capable of full operation on battery as a stand-alone access control system

- **arm/disarm partitions & postpone autoarm by access card or access card and code...from outside the protected space**
  - arm & disarm from outside the protected partition to reduce false alarms caused by entry/exit errors

**to disarm...** use a valid\* card on a reader assigned to a partition to unlock the door and disarm the partition when the user opens the door.

**to arm...** ensure that partition is secure, then use a valid\* card on reader and activate the ARM input (usually a supervised pushbutton).

**to postpone autoarm...** while a partition's autoarm pre-alert is sounding, use a valid\* card on any reader assigned to the partition and activate the POST input (usually a supervised pushbutton). Autoarm will be postponed for up to 255 minutes, after which the system will attempt to autoarm again.

\* a valid card is one which has been programmed to perform the indicated function on a specified partition during a valid time for that user

- **64 access levels**
- **99 seven-day schedules**
  - 4 time intervals per schedule
- **4 two year holiday groups - 730 holidays**
- **individual door-unlock schedules**
- **automatic switching between daylight savings & standard time**
- **program via keypad, or via computer with DLS-2 downloading software**
- **non-volatile RAM**
  - does not lose programming when powered down
- **fully supervised by PC4010/CF & PC4020/CF control panels for :**
  - lock trouble
  - low battery
  - tamper
  - reader low power trouble
  - AC failure
  - auxiliary power trouble
- **door held open activates reader sounder**
- **door forced open activates reader sounder and sets off zone alarm if system is armed**

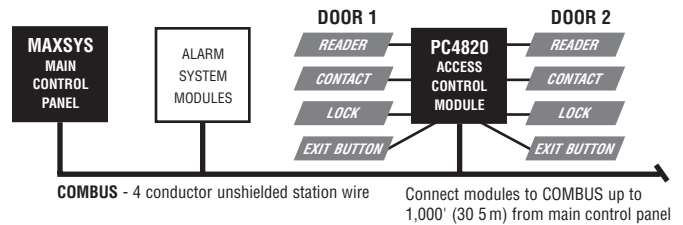
## Electrical Specifications

- **battery required...** 12 volt, 7.0 Ah rechargeable lead acid
- **transformer required...** 16.5 VAC, 4.0 VA
- **1.5A regulated power supply**
  - provides auxiliary power, and power to readers and door locks
  - provides electronic shutdown protection of battery, auxiliary output, reader power supplies, and lock device power output
- **power capacity per door :**
  - reader...** 125 mA max. @ 5VDC or... 125 mA max. @ 12VDC
  - lock...** 250 mA max. @ 12VDC  
(Can be set to fail-safe or fail-secure modes. 12VDC, low current, continuous duty electric strikes recommended. **Check local regulations before installing electric locks**)
- **auxiliary power...** 125 mA max. @ 12VDC
- **4 wire QUAD connection to COMBUS**
  - up to 1,000ft (305m) from PC401 0/CF & PC402 0/CF control panels
- **2 low current outputs per door :**
  - open collector outputs switched to ground 25 mA max.
  - LED...** to reader LED input
  - BUZ...** to reader piezo or other local door sounder
- **4 inputs per door...**
  - DOOR... door-contact input**
    - supervised alarm zone (N/C loop, single or double EOL resistors)
    - program to any partition and alarm zone from zones 9 to 64 on PC401 0/CF panels and zones 17 to 128 on PC402 0/CF panels
    - program as standard or auxiliary delay zone types
  - REX... request-to-exit input**
    - shunts or unlocks door for programmed door unlock time
    - N/C loop or single EOL resistor supervision
  - ARM... arm input**
    - permits arming by access card
    - N/C loop or single EOL resistor supervision
  - POST...autoarm postpone input**
    - permits autoarm postponement by access card
    - N/C loop or single EOL resistor supervision
- **current draw...** 35 mA (from Combus)

## Mechanical Specifications

- **operating environment** - 32 to 122°F (0 to 50°C)  
- 90% RH non-condensing
- **PC4053 beige cabinet :**
  - surface mount
  - hinged door with screw closure.
  - provision for door keylock
  - provision for door and wall tamper switches.
  - space for two 12 volt 7 Ah rechargeable lead acid batteries.
  - 11.5" H x 11.0" W x 2.5" D (29.2 x 27.9 x 6.4 cm)

## Typical System Arrangement



## Ordering Information

### PC4820... Dual Reader Panel c/w :

- PC4053 beige cabinet
- PC4820 dual reader module
- installation manual
- mounting hardware

### Polaris... Mag-Stripe Readers/Cards

- POL-1 ..... Reader – indoor
- POL-1 W ..... Reader – outdoor
- POL-2 ..... Reader – indoor/outdoor
- POL-2K P..... Reader & keypad – indoor/outdoor
- POL-C1C N ..... Mag-stripe card

### Shadow Prox... Proximity Readers/Cards

- SH-V R ..... Std size reader – indoor/outdoor
- SH-1 ..... Slim-line mullion size reader  
4" (10 cm) range – indoor/outdoor
- SH-2 ..... Wall-switch size reader  
4" (10 cm) range – indoor/outdoor
- SH-5 ..... Reader 16" (40 cm) range – indoor
- SH-X 1 ..... Reader 5" (13 cm) mullion style
- SH-X 2 ..... Reader 5" (13 cm) single or double gang box mount
- SH-C 1 ..... Proximity card
- SH-K 1 ..... Proximity keytag

### HID... Proximity Readers/Cards

- HID-MP536 5 ..... Slimline reader  
4-5" (10-13 cm) range – indoor
- HID-PR535 5 ..... Reader 5-9" (13-23 cm) range – indoor/outdoor
- HID-PR535K P... Reader w/ keypad 5-9"  
(13-23 cm) range – indoor/outdoor
- HID-MX537 5 ..... Reader 18-24" (45-61 cm) range – indoor/outdoor
- HID-C1325KS F ... Proximity card
- HID-C1345KS F ... Proximity keytag

### T.Rex... Request-to-Exit Detectors

- KT-TREX-X L ..... Complete with piezo buzzer & tamper
- KT-TREX- LT ..... No piezo, no tamper

## Listing

UL294 – Access Control ... in USA and Canada

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