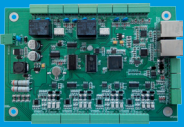# PULSE

Pulse AC200 Contactless Smart Card Mini Reader

- Native TCP/IP on board, 10/100Mbps communication speed
- Flexibility structure cabling, cat 5 cable, direct to hub or panel to panel daisy chain wiring.
- Multi-threading program, transactions upload to database server less than 2 sec under 50 panels.
- User defined 128 bits key for the data exchange between AC100 door access panel to AC100 Server, prevent the real data to be snooped and simulated by other network point.
- User defined 128 bits key, scramble RS485 data exchange between AC100 1 door access panel and Pulse reader, prevent reader data to be snooped and copied.
- Work with AC100 I/O module, save the wiring cost and increase the data security (patented design)
- Support 7 x card number format, each card number format has 3 x facility code checking
- Work with Pulse LCD reader, display interactive message
- Work with Pulse emergency door open device
- 32 bits microprocessor, 50MHz
- External device short circuit protection
- Thumbed protection
- Recoverable fuse protection.
- Status LED represents operating status
- Auto recover for the TCP/IP failure
- Battery on board for memory retention, 3 years
- Firmware can be on-line upgraded
- Real time clock, less than 1 sec deviation daily.
- Twin card operation (100 couples)
- Anti-passback
- Two door interlock

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TECHNICAL DATA

Panel Inputs
- 2 x IN and 2 x OUT Wigand reader or;
- 2 x IN and 2 x OUT scramble RS485 reader
- 2 x door sensor input
- 2 x request to exit input
- 2 x auxiliary input
- 1 x controller box tamper input
- 1 x Pulse high security key open door device
- Power input monitoring : A.C. / D.C. / Backup Battery
- Work with Pulse high security door emergency open device, couple with random key switch & reset panel.

Panel Outputs
- E-Lock relay dry contact output, max. 10A current rating,
- Alarm relay dry contact output, max. 3A current rating,
- Door ajar TTL signal output, 5VDC output, 20mA
- 12.8VDC battery charging

Expansion
- 1 x RS485 serial port for expansion, software and hardware interface to other system

Memory
- 38,000 cardholders, each card holder has 24 bytes content
- 45,000 swipe card records
- 800 events

Holiday date
- 100 Holiday date

Timezone
- 80 x access control time zone
- 1 x password time zone
- 1 x electric Lock time zone
- 1 x alarm time zone
- 1 x door ajar time zone
- 1 x request to exit time zone
- 1 x twin card operation time zone
- All timezone can be assigned from Monday to Sunday and Holiday, 4 intervals per day, time zone can be selected globally or individually

Password (4 digits)
- User password, timezone control
- Global password, key in the password through keypad reader open door
- Duress password, open door but trigger alarm output

Communication
- Panel to hub, CAT 5 cable (max. 100 meters)
- Panel to panel, daisy chain by CAT 5 cable (max. 100 meters)

No. of panels
- Depends on IP address available

Backup Battery
- 12VDC, 7AH backup battery,
- provide at least 4 hours operation, excludes electric lock power consumption

Operating voltage
- 220V, 5A input in AC.
- 12VDC, 3A output

Operating Temperature
- 0° to 65° C

Operating humidity
- 0-95% relative humidity non-condensing

PCB Dimension
- 120mm x 120mm x 12mm

Wiegand Reader
- Communication : Wiegand
- Green / Red LED control
- Buzzer control
- Reader in 6 wires connection
- Max. cable length : 150m

Pulse Reader
- Communication : RS485
- High Security scramble data encryption
- 7 x LED color control
- Buzzer Control
- Interactive message display for Pulse 2000 LCD reader
- Reader in 4 wires connection
- Max. cable length : 1,200m

Host Application
- Window based application, WIN 7/8, 32/64 bits platform
- MS SQL express database.2008 R2
- Server and Client application
- Multi-threading programming
- Multi users application
- Multi-language user interface
- User data access control by department level
- Login user can be set the program access rights as Access / New / Edit / Delete
- Unlimited door grouping for multi doors access rights and time zone setting.
- Access Audit report for viewing all access records and events by various filtering and sorting order.
- Daily attendance / Individual attendance and Master attendance report in Time & Attendance module.