

**4 Doors 8 Readers**  
**POE Network Controller**

**WAC-X4D8R**



**Description:**

WAC Access Controllers are designed to be self-contained controllers ideally suited for small and medium sized companies. Packed with rich features, this product takes care of a variety of control and automation functions in addition to basic access control requirements of any facility.

The models have been designed for specific access requirements in any facility such as access by card and exit by push button. Based on the needs on site, the designer can choose from available models capable of controlling access to 1, 2, 4 or 8 doors (per panel).

The controllers communicate through the traditional RS485 Bus or TCP/IP. The controllers are capable of using industry standard 26-72 bit Wiegand readers as well as other related technologies.

The 2 Door controller can directly power up to 2 door strikes, when using maglocks an additional power supply is needed. 4 door or 8 door controllers require an additional power supply to operate maglocks and/or strikes.

Note local fire and building codes may apply when using maglocks.

Lockable cabinet and control board power supply included with the Access Control Kits.

WatchNET provides ease of installation with a wiring diagram printed on the cabinet door.

Weatherproof and IP rated controller cabinets are available.

**Features:**

- WatchNET-V4 Integrated Security Software with CCTV, intrusion, Biometric Integration, Enterprise-Global and Remote Access Capability
- Advanced ARM M4 Processor, High Speed Response-100,000 credentials in 0.1 sec
- POE 803.11af: A & B Format (End-Span & Mid-Span) with 600mA On Board and Backup Battery Connection
- Flow Control - Scenario Based Logical Event and I/O based configuration with mathematical algorithms
- Multi-Credential, Multi-Factor ID and other High-Security Options. Pay-Per-Swipe and many more capabilities
- Seamless Operation and Recovery for On-Line and Off-Line modes
- RS485 inter communication bus for local and global anti passback and lock down events in off-line mode
- New enclosure for easy mounting and status monitoring

**Advanced Security Features:**

- RS485 Encrypted Readers Compatibility
- Wiegand Readers Inputs - Full range 24~72 BIT, including proprietary readers
- Eleven different options for door access: Standard, Handicap, Multi-Card, Multi-Factor ID, Anti-Pass-Back, Supervisor-User, Multi-User-Group, Video-Verified by Guard, Manager, Master, Emergency

## Salient Features of WatchNET Controllers:

### Integrated Security Solution feature

- Access Control
  - ◊ Multi maps, Zoom In/Out
  - ◊ Multi modes: Card, PIN, Fingerprint, Face Recognition
  - ◊ Transaction will bring the map and cameras
- Intrusion (Support: DSC, Rocknet / ProSYS, Pima)
- CCTV (Compatible with Axis, Hikvision, WatchNET & CP PLUS...)

### 1. Smart Mobile APP

- Compatible with Android, IOS
- Management, Remote Control, Transactions...

### 2. POE

- POE
- Backup battery: POE will offer a socket for backup battery
- Low Voltages protection: Power off during 10.6V, stop to charge during 13.8V
- Network based, 10/100 M

### 3. 3 Layer Memory Structure & Processor

- 32 bits ARM Cortex M4 processor
- 3 Layer memory structure: SDRAM, RAM, Flash
- Download 30k card users, it will take less than 15 seconds

### 4. Supervisor

- DIP Switch to enable or disable SUPERVISOR
- Once the wire is cut, the system will alarm

### 6. Multi Language

- English, Hebrew, Spanish, Russian, Arabic
- Customer can add his own language by Language Editor of Application

### 7. Multi Database, Oracle as an option

- Supports Oracle database, much more stable during enterprise class installations
- Supports MS\_SQL
- Supports MS\_Access also, just for small installations

### 8. Flexible

- Multi connecting mode: TCP/IP, RS232, RS485

### 9. Select Events to Save

- If you would not like to see some unconsidered transactions, such as Door Relay Active..., you can choose "Not saved"

### 10. Events Drive Alarm / Lockdown

- Every event can be setup as the condition to active some relays or close some doors and open some rest doors

### 11. 8 Bytes card number length

- Up to 8 bytes card number length, much more security
- Supports all Wiegand readers from 26 bits to 72 bits

### 12. Supervisor / Manager card

- Boss card: can open any door anytime. Double swipe will switch the door status: NO / Normal
- Manager card: will not be limited by Anti-Pass back. Double swipe will switch the door status: NO / Normal

### 13. Handicap card

- Normal card: The door will keep open normal seconds, like 5 seconds
- Handicap card: The door will keep open longer, like 15 seconds



#### 14. Emergency card

- Emergency card can open all doors when the system crashed

#### 15. Multi-Mode to open door

- Card / PIN
- Card + PIN
- Card / Fingerprint
- Card + Fingerprint
- Multi cards: Up to 8 cards in short time, and release all cards after 8 seconds waiting

#### 16. Master / Slave cards to open the door

- Everybody can setup a Master card for him
- Only this user and his master come here together to open the door

#### 17. Groups cards to open the door

- Up to 4 groups
- Several cards of each group

#### 18. Confirm by Monitor Center

- Only confirmed by center, then door will be open
- Special for Bank Money warehouse

#### 19. Private PIN

- Everybody will have a private PIN: 4 to 8 digitals
- Private PIN will work as same as his card
- System will show his name when he use his PIN

#### 20. Armed / Disarmed

- When all people leave, swipe card and press "Armed Code" from door reader, the system will be armed
- When the first people come, swipe card and press "disArmed Code", the system will be disarmed

#### 21. Email notification

- Up to 3 pcs target email box for every transaction
- System will send email to these email box when the setting events happen

#### 22. Calculator for special area

- Special for some place to calculate different kind of worker
- Show these worker number on display

#### 23. Popup

- Popup for each event
- Different direction and symbol mention
- Different color for each event
- Different sound for each event

#### 24. Operator

- Different management level
- Matched with doors
- Matched with department


#### 25. Different view in different client

- Same view for some clients
- Different view for each client if you want
- Only show these panels which is connected to this PC



#### **Controller Highlights:**

- Supervised Inputs
- Biometric Integration
- Multi-Credential Access
- Dual Power - 12VDC or POE
- Primary/Secondary card options
- RS485 Reader Compatible (100m/328ft)
- Full Range Wiegand Reader Compatible
- Built-in Supervised backup battery charger
- Multi-Factor ID and Advanced Authentication

Model	WAC-X4D8R
	
<b>Description</b>	4 Door 8 Reader
<b>Number of Readers</b>	8
<b>Reader Mix</b>	Up to 4 Weigand + 4 RS485 or up to 8 RS485
<b>Card Holders</b>	100,000 Credential
<b>Memorized Events</b>	200,000 FIFO Events
<b>Door Inputs</b>	4 REX, 4 Door sensors
<b>Door Outputs</b>	4 SPDT (Single Pole Double Throw) 3A Form C Relays
<b>AUX Inputs</b>	4 Configurable
<b>AUX Outputs</b>	2 SPDT (Single Pole Double Throw) 3A Form C Relays
<b>CPU</b>	ARM® Cortex-M4
<b>Memory</b>	32 KB ROM / 512KB SRAM
<b>Reader</b>	RS485 Bus - 1 Wires up to 2 Readers Wiegand - 4-6 Wires, 12VDC 200mA Wiegand Format - 24-72 BIT multi-brands Supports Wiegand 24 to 72 bits (Fingerprint reader, EM/Mifare reader)
<b>Communication</b>	TCP/IP 100MBPS Auto Sensing, RS485 127 controllers for each RS485 Up to 1,200 m for each RS485 Communication speed: 19,200/9,600/4,800 1,1,n
<b>Backup Battery</b>	POE Mode - 12VDC (non-charging) / 12VDC Mode - 12VDC / 7AH (charging)
<b>Power Input</b>	12VDC, 500mA
<b>Protection Circuit</b>	Protects the board from over voltage and short circuit
<b>Auto-test</b>	Yes
<b>LED indicator light</b>	Yellow: power; red and green: communication
<b>POE</b>	803.11af A & B Modes
<b>Power Consumption (non-Poe)</b>	12VDC (±10%), 200mA, (Controller Only) 12VDC (±10%), 2A MAX with 4 Wiegand Readers
<b>Work Environment</b>	0 - 95% RH, - 20°C ~ 65°C / - 4°F ~ -150°F
<b>PCB Enclosure Weigh</b>	4.5kg / 9.92lb
<b>PCB Size</b>	W138mm x H244mm x D33mm / W5.5" x H9.5" x D1.3"
<b>Package</b>	Metal housing with power supply
<b>Dimension (mm)</b>	40.3cm x 38.4cm x 7.2 cm / 15.8" x 15.1" x 2.8"

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