Introduction

WatchNET has had an immense success in the CCTV industry offering Surveillance Solutions over the past 18 years. To meet the growing demands of this industry for a complete Security Management Solution, WatchNET has been investing in research and development for the past four years to determine the right range of Access Control System. With this extensive background and industry experience WatchNET is now launching its range of Access Control Systems, seamlessly integrated with its range of CCTV systems, offering our valued clients a comprehensive Security Management Solution. The company's prime goal is to be a one stop organization for our clients in need for a quality solution.

WatchNET Security Management Solution include Access Control System, Time & Attendance system, Elevator Access Control, Car Park Counting etc. With all of these integrated with Intrusion detection and CCTV systems, WatchNET Access is able to offer our valued clients a comprehensive Integrated Building Security and Management system. Added to this, the development team has immense experience and resources to provide tailored made solutions to meet virtually any customization from our clients. With local presence in the regions for sales and technical support, WatchNET Access is keen to venture into the each of its regional markets as well as expand its presence on the global scene.

Our Mission

To monitor the constant changes in this growing security industry and to provide our clients with innovate, comprehensive solutions that can take care of complex environments, at the same time provide a solution that is user-friendly and simple to use.

Our Team

Our sales, development and support team with years of experience in the industry along with teams based in each of the operational regions with an immense experience in the local regions will back you up with any or every requirements for Security Solutions.

WatchNET Access at Global Trade Shows

- Intersec Dubai 2014
- IFSEC India 2013
- ISC West, Las Vegas 2013
- Security and Safety Asia, Singapore 2013

WatchNET Access Software

WatchNET Access software is a fully integrated solution for Access Control, Intrusion Detection, CCTV, Time & Attendance and Building Management. This powerful software manages multiple tasks using WINDOWS Vista and Windows 7 Professional Versions and supports databases such as MS SQL & MS Access. Windows 8 version is planned to be released shortly. The Client-Server structure allows remote controlling from up to 100 different remote clients. In addition to English the software is also available in multiple languages such as Spanish, French, Russian, Norwegian, Hungarian, and others.

The TCP/IP communication between the WatchNET Access software and the WAC Controllers is done transparently through Windows OS sockets making it easy to have auto detection of any TCP/IP controller or the controllers connected through RS485 Bus. This saves a lot of time for the installer as well as making troubleshooting tasks easier. The software's customizable interface allows the user to design the screen according to their choice and bringing it up each time they log on to the system.

Multiple software operators with different levels of access can simultaneously access the system. The system starts with only a single user called “Administrator”, who can create different users enabling them with access only to data as allowed by their access rights or privileges.

WatchNET Access provides a comprehensive graphical monitoring and control. Map Maker allows having four layers of visual maps of the different sites, buildings, floors and areas. User can view all controller components and monitor their real time status (locks, sensors, exit buttons, inputs, and outputs).

Users can also change the status of the components by right clicking on the particular component and choosing the options available. All maps and controller components displayed are dynamic. The components will change their graphical icon if their physical status has changed (i.e. lock was opened).

The system enables the operator to monitor entry of personnel on site in real time. The person’s database picture along with his credentials is displayed. The latest entry is shown as a large picture while the previous three is delegated to smaller screens on the side. This feature facilitates video verification through camera pictures as well. The operator has a choice of two views in the system.

The second one has the four slots vertically and as new entry takes place the old moves to the right and disappears from the screen.

The system also enables specific events to pop up boxes from different areas of the screen.

With this the operator is easily available to identify whether the entry is a regular entry which can pop up from the right hand side bottom of the screen or an alert which can pop up from the left hand side middle of the screen. These features reduce stress on the operator as they don’t have to stay focussed on the screen all the time monitoring the events. The colour of events as it appears on the screen can also be configured making it specific to different organizations.
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**WatchNET Access Software Features**

- Software in multiple languages
- Easy icon based navigation
- Choice of colors & sounds for every event
- Auto Detection of Controllers on the network by Mac address
- Auto or Manual Backup of the Database
- Exporting Events
- Searching / Add / Delete quickly
- Multi-Site Setup and Management with interactive dynamic maps
- DVR / IP Camera Video Integration
- Event Email Notification
- Pop up screens on specific events

**WatchNET Access Controllers**

WAC Access Controllers are designed to be self-contained controllers ideally suited for small and medium sized companies. Packed with rich features, this product carries a variety of control and automation functions in addition to the basic access control requirements of any facility. The models have been designed for specific requirements in any facility such as Access by Card and Exit by Push button or Entry as well as Exit using Card readers (IN/OUT). 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), unlimited doors online.

The controllers communicate through the traditional RS485 Bus or are TCP/IP ready depending on the models chosen. Once configured these controllers function independently processing complex tasks making it an ideal choice for intelligent buildings. The controllers are capable of using industry standard Wiegand Readers, Biometric as well as other related technologies.

The software scans the network for all installed controllers and lists them using the Search function. Auto or Manual configuration is possible on all the controllers detected online. The operator has the choice to select an Auto download or Manual download to the controllers.

**WatchNET Access Controller Features**

- Supports RS232/RS485/TCP/IP
- Cards holder capacity: 100,000
- Transactions storage: up to 270,000
- Supports keypad readers
- Supports up to 500 temporary cards with security settings
- Up to 365 holidays
- 35 Time Zones for each door
- 24 sets of Flow Control
- Local and Global Anti-Pass back
- Programmable Door Status
- Always Closed (Can be opened by Supervisor cards only)
- Multiple types of Events
- Data can be kept for 180 days without power
- CE, FCC, RoHS approval

**WatchNET Range of Access Controllers**

<table>
<thead>
<tr>
<th>Model</th>
<th>WAC 1D2T</th>
<th>WAC 2D2T</th>
<th>WAC 4D4T</th>
<th>WAC 4D8T</th>
<th>WAC 8D8T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>1 Door 2 Reader (IN/OUT)</td>
<td>2 Door 2 Reader</td>
<td>4 Door 4 Reader</td>
<td>4 Door 8 Reader (IN/OUT)</td>
<td>8 Door 8 Reader</td>
</tr>
<tr>
<td>Card holders</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Memorized events</td>
<td>270,000</td>
<td>270,000</td>
<td>270,000</td>
<td>270,000</td>
<td>270,000</td>
</tr>
<tr>
<td>Built-in inputs</td>
<td>3</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Built-in outputs</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Exit button inputs</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>PCB size</td>
<td>17cm x 13cm / 6.7” x 5.1”</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCB weight</td>
<td>0.5 Kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>32 bits of ARM, 2 watch-dogs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>32 KB ROM / 512KB SRAM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Card/Transactions capacity</td>
<td>100,000 card holders, 270,000 off line event buffer, Unlimited transactions (on line)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reader</td>
<td>Supports Wiegand 24 to 72 bits (Fingerprint reader, EM/Mifare reader)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supports WatchNET and other readers with Wiegand Protocol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td>TCP/P 10 Mbps (optional)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>127 controllers for each RS485</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Up to 1,200 m for each RS485</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication speed: 19,200/9,600/8,11, n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Can be worked with WAC-XDY controller and WAC-US8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input/output port</td>
<td>Terminal block for Plug &amp; Play connection of readers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dry door relay/extension relays output, 5A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exit Buttons. Door Lock Sensors, Extension Inputs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection circuit</td>
<td>Protects the board from over voltage and short circuit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-test</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Led Indicator light</td>
<td>Yellow: power; red and green: communication</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>12VDC (±3%), 300mA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Auto volt 100 to 240VAC 50 / 60Hz with power supply</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work environment</td>
<td>Temperature: -40°C ~ 70°C / 40°F ~ +158°F</td>
<td>Humidity: 0 to 90%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Package</td>
<td>Metal housing with power supply</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension (mm)</td>
<td>30cm x 35cm x 7cm / 11.9” x 13.8” x 2.8”</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>2.9kg / 1.3lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**WAC Controller Specifications**

- Model: WAC 1D2T, WAC 2D2T, WAC 4D4T, WAC 4D8T, WAC 8D8T
- Number of Readers: 2, 2, 4, 8, 8
- Memorized events: 270,000, 270,000, 270,000, 270,000, 270,000
- Built-in inputs: 3, 4, 2, 4, 0
- Built-in outputs: 3, 4, 6, 8, 8
- Exit button inputs: 1, 2, 4, 4, 8
- PCB size: 17cm x 13cm / 6.7” x 5.1”
- PCB weight: 0.5 Kg
- CPU: 32 bits of ARM, 2 watch-dogs
- Memory: 32 KB ROM / 512KB SRAM
- Card/Transactions capacity: 100,000 card holders, 270,000 off line event buffer, Unlimited transactions (on line)
- Reader: Supports Wiegand 24 to 72 bits (Fingerprint reader, EM/Mifare reader) Supports WatchNET and other readers with Wiegand Protocol
- Communication: TCP/P 10 Mbps (optional) 127 controllers for each RS485 Up to 1,200 m for each RS485 Communication speed: 19,200/9,600/8,11, n Can be worked with WAC-XDY controller and WAC-US8
- Input/output port: Terminal block for Plug & Play connection of readers Dry door relay/extension relays output, 5A Exit Buttons. Door Lock Sensors, Extension Inputs
- Protection circuit: Protects the board from over voltage and short circuit
- Auto-test: Yes
- Led Indicator light: Yellow: power; red and green: communication
- Power: 12VDC (±3%), 300mA
- Auto volt 100 to 240VAC 50 / 60Hz with power supply
- Work environment: Temperature: -40°C ~ 70°C / 40°F ~ +158°F | Humidity: 0 to 90%
- Package: Metal housing with power supply
- Dimension (mm): 30cm x 35cm x 7cm / 11.9” x 13.8” x 2.8”
- Weight: 2.9kg / 1.3lb
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<td>Metal housing with power supply</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension (mm)</td>
<td>30cm x 35cm x 7cm / 11.5&quot; x 13.8&quot; x 2.8&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>2.9kg / 1.3lb</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
Elevator Access Controller WAE-016-ENC, up to 128 floors

Elevator Access Controller enables the Security Administrator to assign the card holders to specific floors. As soon as the employee flashes his card on the reader inside the elevator cab the elevator automatically moves to the assigned floor.

In case the employee has access to more than one floor and wishes to go to a floor other than the assigned one then all they has to do is to push a button on the elevator panel and all the floor buttons they have access to will be enabled.

The person can then choose to move to the desired floor by pushing the appropriate button. WAE-016-ENC is the main controller board in an enclosure with a power supply built in. It can control access for 16 floors independently.

The capacity of this controller can be expanded using WAE-E16-PCB, with each expansion board adding another 16 Floors. The maximum number of extension boards that can be added to the main controller is 7 enabling the system to control access for up to 128 floors.

Digital Input / Output Controller - WAI-168-ENC

The Input and Output Controller has been designed to add a variety of automation functions to the Access Control System. This unit seamlessly increases the number of inputs and outputs that already exists on the controller and adds more flexibility to the command and control functions of the software. All the relays inside WAI-168-ENC have the protection circuits to ensure stability to the system.

The controller provides 8 Output Relays (NC/NO) and 16 Inputs (NO). The controller board is built around a Texas Instruments 32 bit processor with built in TCP/IP interface (10/100 Base-T) and a RS232/RS485 interface. A maximum of 127 controllers can be connected on a RS485 bus. This unit supports online computer polling with 15 Time groups for each relay. The Data Memory is 512KB with a Lithium battery backup with up to 10 years retention.

WatchNET Access Biometric Reader Integration

The WatchNET Access software is seamlessly integrated with Biometric readers making enrollment of the card holders and their fingerprints from a single screen. Currently it is integrated with the WatchNET Biometric readers as well as a few well-known brands in the industry.

Integration can also be developed as per clients requirements provided the requirements needed for integration is provided to us. Initially each reader is connected to the software through a USB cable to set its device parameters for TCP/IP communication.

Once this is done all biometric readers are plugged into the network and as is the case with controllers, the software scans the network and identifies the units. The fingerprint is enrolled at the same time a card is issued using the USB fingerprint enrollment unit. The fingerprint template is then downloaded to all the fingerprint units through TCP/IP. All the biometric readers will be listed in the card enrollment screen and access can allowed on all or specific readers depending on the access level of the cardholder.

Active Directory Integration - Integration of Logical and Physical Security

With the increasing demand of cutting out duplication and eliminating induced errors from operators integration of logical and physical security has started to play an important part in the Security Industry. As companies move towards a seamlessly automated approach, synchronization of data between the different systems becomes a very crucial element in security systems.

With Active Directory integration, synchronization of both user and cardholder profiles between Active Directory and the WatchNET Access database as and when they are added to the Active Directory and WatchNET Access is done to ensure there is no requirement of human intervention during the synchronization process, thereby eliminating errors that could result with manual operations from multiple locations.

As a new Windows user is added, an equivalent security user or operator account is created in the WatchNET Access Security Management Platform, providing automatic synchronization between the two systems. The synchronization process with Active Directory will ensure Windows users also become security system users and will inherit their security privileges without further administrator intervention leading to increased efficiency within an organization.

Features:
- Security managers can easily configure mappings between WatchNET Access and Active Directory
- Active Directory users are automatically linked to cardholders by selecting a common unique value using which is generally the card number
- Field mapping configurations is streamlined easily via Active Directory Sync Tool
- New users are automatically entered as cardholders to WatchNET Access database as and when they are added to the Active Directory and assigned access levels
- Active badges for a cardholder can be deactivated when user is disabled/deleted from the Active Directory
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Elevator Access Controller enables the Security Administrator to assign the cardholders to specific floors. As soon as the employee flashes his card on the reader inside the elevator cab the elevator automatically moves to the assigned floor.

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WatchNET Access Video Integration

The WatchNET Access software is seamlessly integrated with CCTV system through DVR/NVR and IP Cameras. Currently it is integrated with all WatchNET video products and a few other supported brands.

Integration can also be developed as per client requirements provided the requirements needed for integration is provided to us. Initially each reader is connected to the software through a USB cable to set its device parameters for TCP/IP communication.

Once this is done all biometric readers are plugged into the network and as is the case with controllers, the software scans the network and identifies the units. The fingerprint is enrolled at the same time a card is issued using the USB fingerprint enrollment unit. The fingerprint template is then downloaded to all the fingerprint units through TCP/IP. All the biometric readers will be listed in the card enrollment screen and access can be allowed on all or specific readers depending on the access level of the cardholder.

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- New users are automatically entered as cardholders to WatchNET Access database as and when they are added to the Active Directory and assigned access levels
- Active badges for a cardholder can be deactivated when user is disabled/deleted from the Active Directory
WatchNET Access Integrated Security Management System

Small, Medium & Enterprise Level Access Control Solutions

LAN

MS Access or SQL Database
Single Screen Access Management
100,000 Users & 270,000 Transactions
Time & Attendance
Interactive Maps
Customizable Reports
Active Directory Integration
Badge Printing
Elevator Control
Video Integration
Integrated Biometric Enrollment
Canteen Management
Meeting Management
Web Browser and Mobile Apps

WAC 2D2T Controller
WAC 4D4T Controller
WAF EMC 500
WAA WS-485
WAC-1D2T-MICRO
WAC-016-ENC
WAC-016-ENC
WAC-016-ENC
WAC-4D4T-ENC
WAR-E10-DKP
WAR-E10-DKB
WAR-E10-VKR
WAB-BEM-FCR

CCTV System Server
Access Control Server

Internet

Cloud

BUILDING MANAGEMENT SYSTEM

BMS Server

Lighting Control System Server

LIGHTING CONTROL SYSTEM

INTRUSION DETECTION SYSTEM

Wireless Communicator

Biometric Readers

Video Transmitter

Face Recognition System

Long Range 4 Button Transmitter with built-in proximity access

BMS Server

CONTROLLERS

READERS

BIOMETRICS

Date
Time
JAN 01/06 11:30am
Stand Alone Networkable Single Door Controllers

The **WAC-1D2T MICRO** is a Single Door Standalone, 2 Readers Controller.

The controller has an built-in reader with a keypad and display allowing for the connection of an external reader. The Standalone Series WatchNET Access Controllers consist of two different operational modes. This unit can be used as a Stand Alone Access Control Panel or a Standard Networked Single Door Access Control Panel.

This unit communicates exactly the same way as the other standard controllers. This unit when plugged into the network can be searched and enrolled by the software.

This unit is intelligent enough to utilize all the features of the software bringing this unit seamlessly into the WatchNET Access Software enabling this unit to work along with Elevator Controllers and I/O Controllers.

**SPECIFICATIONS:**

- **Lock Output:** 1 Door Relay (NC/NO)
- **Door Sensor:** 1 Door Sensor (NO)
- **Request to Exit:** 1 Exit Button
- **Auxiliary Relay Output:** 1 Auxiliary Output Relay
- **Auxiliary Inputs:** 2 Auxiliary Inputs
- **Card Reader Input:** 1 Wiegand Reader Input
- **Communication:** TCP/IP, RS-232/RS-485 interface
- **Maximum number of Controllers on RS 485:** Up to 127 controllers per RS-485 bus
- **Online computer polling:** Supported
- **Time Groups:** 15 Time Groups for 1 door
- **Maximum Card Capacity:** 30,000
- **Emergency Cards:** 10
- **Transaction Storage:** 15,000 events
- **Dimensions:** 150mm, H: 10mm; M: 50mm
- **Compatible cards:** EM/HID/Mifare Compatible Proximity cards
- **Communication Speed:** 10/100M
- **Operating Voltage:** 12VDC (-10%)
- **Operating Current:** ≤ 100mA
- **Standby Current:** ≤ 80mA
- **Working Temperature:** -30°C to 65°C (22°F to 15°F)
- **Operating Humidity:** 0 to 95%
- **Weight:** 290 g (0.63 lbs.)

**WatchNET Face Recognition Readers**

**WAF EMC 500 Face Recognition Reader** is designed as a Stand Alone Time Attendance & Access Control System, which is built around the concept of “the uniqueness of human face” and providing users with fast, effective management services, utilizing the latest Face Image +V4.0 recognition technology.

This unit provides accurate access rights/attendance records through the perfect combination of a patented design of “multiple light face recognition” technology using low power processors as well.

**WAF EMC 500** attendance/access control unit has a 3.5 inch large-screen touch for better sensory experiences, a delicate structure without mechanical keyboard. The unit’s voice prompts and WEB management software make it easy to program and to operate.

With the active auxiliary light source technology, it has high light adaptation ability enabling this unit to around-the-clock.

**SPECIFICATIONS:**

- **Camera:** Double professional built-in cameras
- **Storage:** 1: N
- **Max users:** 500 @ 1:1 (Unlimited via expanding SD card)
- **Built-in Reader:** EM or Mifare Reader (customized)
- **Built-in Reader Format:** 26, 34 Wiegand Format
- **Card Reader Input:** 1 Wiegand Reader Input
- **Identify Time:** ≤ 1 sec; Read Accuracy: > 99%
- **Angle Range:** Horizontal: ±20°, Vertical: ±20°
- **User Height:** 145-195CM, Working Distance: 30-80CM
- **Record Storage (SD Storage):**
  - 500,000 for 2GB, 2,500,000 for 8GB, 5,000,000 for 16GB
  - 10,000,000 for 32GB
- **Recording:** Identified Facial Images stored regardless of whether it is registered
- **Network:** TCP/IP (RJ45 with indicator)
- **Storage Capacity Alarm:** Indicator on when storage less than 10%
- **LCD:** TFT Touchscreen, 3 inch LCD 240*360
- **Function Buttons:** 10 customizable buttons
- **Working Light:** 0-20000LUX
- **Operating Voltage:** 12VDC
- **Operating Current:** ≤ 500mA
- **Standby Current:** ≤ 30mA
- **Working Temperature / Operating Humidity:** 0°C to 45°C (32°F to 113°F) / 20% to 80%
- **Dimension:** 206mm (H) x108mm (W) x93mm (D)
- **Weight:** 690 g (1.52 lbs.)
Stand Alone Networkable Single Door Controllers

The WAC-1D2T MICRO is a Single Door Standalone, 2 Readers Controller.

The controller has an built-in reader with a keypad and display allowing for the connection of an external reader. The Standalone Series WatchNET Access Controllers consist of two different operational modes. This unit can be used as a Stand Alone Access Control Panel or a Standard Networked Single Door Access Control Panel.

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SPECIFICATIONS:

Lock Output:
- 1 Door Relay (NC/NO)

Door Sensor:
- 1 Door Sensor (NO)

Request to Exit:
- 1 Exit Button

Auxiliary Relay Output:
- 1 Auxiliary Output Relay

Auxiliary Inputs:
- 2 Auxiliary Inputs

Card Reader Input:
- 1 Wiegand Reader Input

Communication:
- TCP/IP, RS-232/RS-485 interface
- Up to 127 controllers per RS-485 bus

Maximum number of Controllers on RS 485:
- Supported

Online computer polling:
- 15 Time Groups for 1 door

Maximum Card Capacity:
- 30,000

Emergency Cards:
- 10

Transaction Storage:
- 15,000 events

Dimensions:
- 150mm, H: 10mm; M: 50mm

Compatible cards:
- EM/Mifare Compatible Proximity cards

Communication Speed:
- 10/100M

Operating Voltage:
- 12VDC (+10%)

Operating Current:
- ≤ 100mA

Standby Current:
- ≤ 80mA

Working Temperature:
- -30°C to 65°C (22°F to 151°F)

Operating Humidity:
- 0 to 95%

Weight:
- 290 g (0.63 lbs.)

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WAF EMC 500 attendance/access control unit has a 3.5 inch large-screen touch for better sensory experiences, a delicate structure without mechanical keyboard. The unit’s voice prompts and WEB management software make it easy to program and to operate.

With the active auxiliary light source technology, it has high light adaptation ability enabling this unit to around-the-clock.

This unit also boasts to be one of the first face recognition attendance machine which can work in the outdoor environment in its true sense. This product has many functions including the intelligent self-learning, USB data import and export and remote network management. The unit comes along with Time Attendance software that supports multiple recognition modes. All the users have an ID number/password with the configuration enabling individual users to have different recognition modes individually. The system also supports holiday management making this an ideal choice for various business institutions and corporate establishments.

SPECIFICATIONS:

Camera:
- Double professional built-in cameras

Storage:
- 1: N

Max users:
- 500 @ 1:1 (Unlimited via expanding SD card)

Built-in Reader:
- EM or Mifare Reader (customized)

Output Format:
- 26, 34 Wiegand Format

Card Reader Input:
- 1 Wiegand Reader Input

Identify Time:
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Angle Range:
- Horizontal: ±20°, Vertical: ±10°

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- 145-195CM, Working Distance: 30-80CM

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- 500,000 for 2GB, 2,500,000 for 8GB, 5,000,000 for 16GB
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- TCP/IP (RJ45 with indicator)

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Function Buttons:
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Dimension:
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Weight:
- 690 g (1.52 lbs.)
WatchNET Access Biometric Readers

WAB BEM FCKS is a compact fingerprint unit incorporating a keypad, optical fingerprint sensor, card reader and access control components like inputs and outputs for lock and door sensors built around the latest fake fingerprint detection technology. WAB BEM FCKS can be used as a simple Stand Alone Access Control or connected to high end access control systems using its TCP/IP port. When connected to WatchNET Access Control system the software can search this unit as a Biometric Controller and almost all functions applicable to the standard controller works with this unit. The unit reports all the data back to the controller without the need of a wiegand connection between this unit and the controller.

EM Reader is the standard reader in the WAB BEM FCKS unit with Optional Mifare or HID reader modules. The fingerprint enrollment is made easy when connected to WatchNET Access control software through the standard card enrollment screen in the software.

WAB BER USBS is a USB fingerprint reader exclusively for fingerprint and card enrollment through the software from a centralized location. This device utilizes an optical fingerprint scanner which is scratch proof, unbreakable and durable. WAB BER USBS enrollment reader utilizes blue area source (a stable light in spectrum) as background light. The generated image fully matches the real one making it accurate and interference free.

Web Browser Access

Web Browser provides Web Access to the WatchNET Access Software. This provides remote access to the system enabling control of various system functions depending on the access rights of the individual operators. The web browser allows the operator to perform the following functions:

- System Operation Log
- Query and Reporting Services
- Card Event, Hardware Event Monitoring
- Personnel Management
- Time & Attendance Reports
- Hardware and Event Reports

Mobile Phone App

The Mobile App Set Up allows the App to communicate with the Web Services of WatchNET Access using the systems IP Address and Password. After Log in the App allows essential control of the system functions such as monitoring events, assigning departments, monitoring controller status.

The App allows the user to monitor the system regularly by setting a required refresh rate. The App is available for iPhone and Android platforms.

WatchNET Access Proximity Card Readers

WAR Card Readers Series

The WatchNET WAR Series card readers are unique combination of style and reliability making it an ideal choice for entry level access control, time attendance or for large and complex installations.

The unit resists the elements such as glue, oil, rain, ice, snow making it ideal for hospitals, industrial and commercial application.

This dual-application product has advanced reader features for wide compatibility with different controller types including multiple RFID card transmission formats, LED & Buzzer control. Blue backlit LED assists operation in low or no light conditions and along with a built in internal sounder, this reader provides superior accessibility.

This superior quality Proximity reader is rugged, weather-resistant, and attractive in design with also an exceptionally long life due to no moving parts.

<table>
<thead>
<tr>
<th>Model</th>
<th>WAR-E10-STB</th>
<th>WAR-E10-DKP</th>
<th>WAR-E10-VKR</th>
<th>WAR-EM1-LRR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range in cm</td>
<td>14</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Output</td>
<td>26/34 bit</td>
<td>26/34 bit</td>
<td>26/34 bit</td>
<td>26/34 bit</td>
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<tr>
<td>Indicators</td>
<td>Blue/Green</td>
<td>Blue/Green</td>
<td>Blue/Green</td>
<td>Blue/Green</td>
</tr>
<tr>
<td>Size in mm</td>
<td>86x86x15</td>
<td>43x86x16</td>
<td>126x95x25</td>
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<td>Frequency</td>
<td>125Khz</td>
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</tr>
<tr>
<td>Voltage</td>
<td>7-12V DC</td>
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</tr>
<tr>
<td>Operating Current</td>
<td>500mA</td>
<td>500mA</td>
<td>500mA</td>
<td>500mA</td>
</tr>
<tr>
<td>Standby Current</td>
<td>550mA</td>
<td>550mA</td>
<td>550mA</td>
<td>550mA</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-35°C ~ 65°C</td>
<td>-35°C ~ 65°C</td>
<td>-35°C ~ 65°C</td>
<td>-35°C ~ 65°C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0 ~ 95%</td>
<td>0 ~ 95%</td>
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</tr>
<tr>
<td>LED Control Input</td>
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</tr>
<tr>
<td>Buzzer Control Input</td>
<td>Dry Contact, N/O</td>
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<td>Dry Contact, N/O</td>
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<tr>
<td>Weight</td>
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<td>0.1g (0.22lb)</td>
<td>0.2g (0.4lb)</td>
<td>0.5g (lb)</td>
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<tr>
<td></td>
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<td>0 ~ 95%</td>
</tr>
<tr>
<td>LED Control Input</td>
<td>Dry Contact, N/O</td>
<td>Dry Contact, N/O</td>
<td>Dry Contact, N/O</td>
<td>Dry Contact, N/O</td>
<td>Dry Contact, N/O</td>
</tr>
<tr>
<td>Buzzer Control Input</td>
<td>Dry Contact, N/O</td>
<td>Dry Contact, N/O</td>
<td>Dry Contact, N/O</td>
<td>Dry Contact, N/O</td>
<td>Dry Contact, N/O</td>
</tr>
<tr>
<td>Weight</td>
<td>0.3g (0.17lb)</td>
<td>0.1g (0.22lb)</td>
<td>0.2g (0.4lb)</td>
<td>0.5g (lb)</td>
<td>1200g (2.64lb)</td>
</tr>
</tbody>
</table>
**Long Range Identification**

WatchNET WAR Series Long Range Receivers are ideal for long range access control applications, such as gates, raising and lowering barriers, arming and disarming alarm systems, as well as those applications calling for emergency duress. The Receiver was designed to output Wiegand data and install similar to standard proximity readers making for easy integration with most access control systems.

WAC WT2 Transmitters are available in either a two or four button (WT4) configuration and are equipped standard with a potted proximity or contactless smart card module. This allows the Transmitter to also be used as a presentation style access credential. For example, a button may be pressed to access a long range application such as a gated parking structure, and then the Transmitter may be presented to an access control reader to allow entry to the building. These units are available in HID and AWID compatible formats to be used on compatible readers.

**Wireless Connectivity**

WatchNET Access Wireless Transmitter has been specifically designed to meet the industry's remote access requirements. This unit fits excellently in areas where cabling is close to impossible at the same time making no compromises to the system functionality.

The system functionality remains the same whether it is hooked up using cables or has wireless connectivity.

This unit also can be used independently as a wireless sensor for home automation applications, for Data Acquisition, Telemetry, Asset Management, Building Automation, Parking Management

**Features:**
- Wireless point to point transmission, multipoint transmission
- Range up to a maximum of 1000 M*
- Reasonably strong penetration through obstructions
- Up to 4 channels to enable multiple data transmission
- Interfaces for RS485/ RS232
- Active driver with optical isolation
- High Stability Microprocessor
- Metal surface providing excellent electrostatic shielding
- Some restrictions apply

* Some restrictions apply

**Special Order Accessories – For applicable regions only**

WatchNET Installation Accessories

WAA-DRC-SUR Door Contact Surface Mount
The door contact is designed specifically for wooden doors installation. This can be mounted using Adhesive tape or with mounting screws.

WAA-DRC-FLS Door Contact Flush Mount
The door contact is designed specifically for flush mounting on wooden doors installation.

**WAA EML 300 / 600 / 600D Series EM Locks**
The WatchNET 300 / 600 / 600D series electromagnetic locks for Double Doors are renowned with its excellent holding force and the remarkable features. These units are manufactured under the highest quality control to achieve the commitment to customer who always satisfied with maximum quality and reliability. Also available are L, Z and U shaped brackets to suit various door type installations. Operates at low voltage at low current consumption rate. Green/Red LED provides locked/released status.

Brackets for EM Locks
LS/ZL and EU Brackets are available to meet various types of door installations.

**Brackets for EM Locks**

LS/ZL and EU Brackets are available to meet various types of door installations.

**WAA-BGU-GRN**
Emergency Break Glass Unit

**WAA REX-PSQ**
Request to Exit Switch (ABS Plastic)

**WAA REX-MSQ**
Request to Exit Switch (S. Steel)
Long Range Identification

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