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48018 Faenza (RA) - Via G. Oberdan, 42 - Tel.: ++39 0546 677111 - Fax: ++39 0546 677577 - hospitality@cisa.it - www.cisa.com

PDE 438

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**CONTACTLESS LOCKING SYSTEM**  **wave**



## CONTACTLESS TECHNOLOGY

CISA's experience in hotel applications brings you **Wave**, an innovative and secure electronic locking system with **contactless** technology. Designed to withstand direct exposure to any weather conditions<sup>(\*)</sup>, Wave is ideal for hotels/resorts who wish to offer their guests a solution that is both reliable and user friendly.



### BENEFIT

#### Per l'hotel

- **Protection:** IP54 rating, the solution for demanding environment.
- **Low power consumption:** the auto-on feature allows a long battery life.
- **TSP emergency mechanical override:** for the safety and security of your guest.
- **Image:** communicates standard of quality and hotel security to your guest.

#### Per l'ospite

- **User friendly:** to open the door, simply bring wave card close to wavelock, aligning both "targets" (card and lock); no "switch on" button required!
- **Not only cards:** to open the door, tags in a variety of shapes are available (on request): i.e. bracelet, ideal for who wish to carry only the convenience!



(\*) for more details see Specs page.

## WAVELOCK: A CERTIFIED CHOICE

**Wavelock** is the **IP54 certified** contactless lock that assures maximum protection in your hotel!

IP54

#### Protected

Wavelock (AOH##.##.#.##QF Series) affords good resistance to exposure to all weather conditions<sup>(\*)</sup>. Thanks to a sealed solution, Wavelock is protected against water sprays as well as sand, salt and dust in general. It has a degree protection IP54 certified by "Istituto Giordano", Sincert accredited.



#### User friendly

Data transfer between Wavelock and the card is accomplished without physical contact, through the use of RFID (Radio Frequency Identification) technology. The graphics on the card and on the Wavelock (based on "targets") allows an intuitive use.



#### Auto-on

Thanks to the auto-on feature, Wavelock automatically exits stand-by mode when a wave card gets closer the lock; this preserves power and eliminates the need of inconvenient switch-on operations.



#### Audit trail

The last 500 operations (use of mechanical override included) are recorded in the lock's memory, and kept even in the absence of battery power.



#### TSP Mechanical Emergency Override

Ensures prompt and non invasive (no drilling) emergency opening. Maximum peace of mind, maximum safety for guests.

- Patented cylinder, can be recoded 3 times
- Set of 3 (1,2,3) patented pass keys
- Security Card: CISA authorizes duplication system; a copy of the key can only be made by CISA, upon production of the Security Card supplied together with the cylinder.



#### 4 batteries only

Wavelock is powered for more than 3 years by 4 standard batteries only!



#### Automatic deadbolt

Antipanic lock with deadbolt that is automatically thrown when door is closed for added security (on request).



#### Audit trail +

Thanks to the management of the automatic deadbolt mortise lock (5A200.##.#.## LG series), Audit trail + records **both the entrance and the exit**, too! It is finally possible to identify who (card) left the room (and when) for improved monitoring of staff and guests (on request).

Wavelock is also available in not seated model (AOH## Series) for protected environment.

(\*) for more details see Specs page.

## ENCODING SYSTEM

## WAVEMOBILE



**WAVEMOBILE, THE COST EFFECTIVE SOLUTION FOR THOSE WHO WANT THE BENEFITS OF THE MOST ADVANCED, AND BY NOW, ESSENTIAL FEATURES.**

Wavemobile is the portable unit able to carry out two tasks:  
 - card issuing and management, both standalone and network configuration available  
 - lock interrogation and programming

**DUAL FUNCTION**



Easy to manage and identify (audit trail) each card by name, thanks to the user interface based on mobile telephone standard (alphanumeric keypad)

**USER FRIENDLY**



In addition to the mains power supply Wavemobile is supplied with batteries which guarantee its functioning even in case of power failure

**DUAL POWER SUPPLY**



**AUTONOMOUS NETWORK**

Multi-check-in stations facility without any dedicated PC. The system architecture, based on a shared database, allows it to manage up to 200 devices in network: Wavemobile and access control units in mixed configuration.



**PMS INTERFACE**

Easily interfaceable to the most common PMS without requiring extra devices or dedicated PC. It is possible to operate simultaneously both from the PMS and from the encoding system.



**VIRUS FREE**

Wavemobile is autonomous, no PC required therefore virus free. The system allows check-in operations even when interfaced to the PMS and this is not active



**FAST CHECK-IN**

User interface specially designed for receptionist. Allowing the issue of guest cards in a few seconds even when not interfaced to the PMS



Further software tools for search, printing and back-up of the main files (smart reporting), and for integrating or interfacing Wavemobile with a Windows environment (DLL 9800) are available, on request.

Standard configuration handles up to 300 access points properties; configurations for hotels over 300 access points are available, on request.

# COMPLEMENTARY COMPONENTS

## ACCESS CONTROL

Designed to manage the access to both restricted areas (garages, parking, etc) and common areas (fitness centre, conference room, business centre, etc) according to programmable timetables. No staff assistance required.

- **IP55 certified:** thanks to the sealed solution, the reader is protected against water jets as well as sand, salt and dust in general. It has a degree protection IP55 certified by "Istituto Giordano" Sincert accredited.
- **Configurable:** both off-line and on-line are available; on-line configuration assures the real guest card invalidation at check-out.
- **User friendly:** the graphics on the card and on the reader (based on targets) the high-visibility indicator lights allow an intuitive use.
- **Simple and secure installation:** the device is easy to install and extremely strong and reliable. Compatible with "503 type" box.

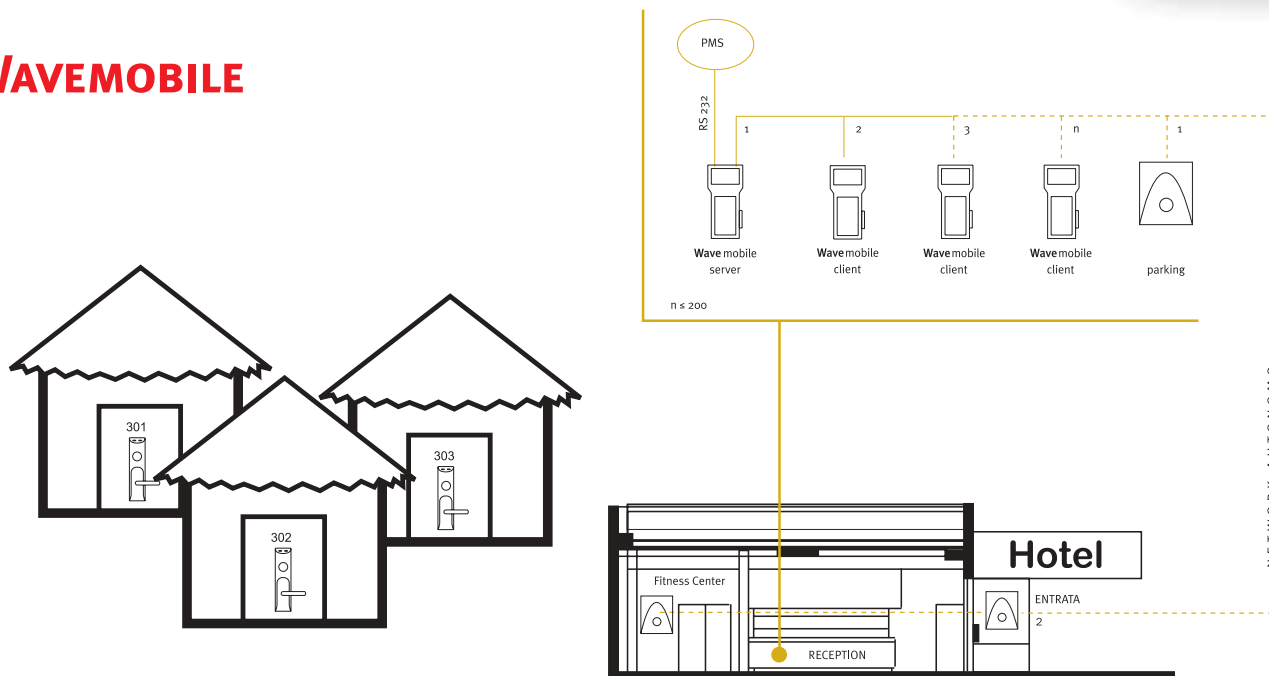


## ENERGY SAVING

Simple and cost-effective solution to reduce guestroom energy consumption. It is a card operated switch that can be placed at the entrance of the guest's room. Supplied with illuminated slot and delayed switch off for guest comfort. Commercial transformers and contactors are available (on request).



## WAVEMOBILE



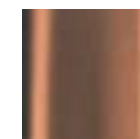
# FINISHES

## ANODIZZATE

Durable elegance. Special electrochemical treatment to withstand demanding environmental conditions.



A6-Gold



A4-Bronze



A5-Black (painted)



A3-Silver



A9-Anthracite

## ELECTROPHORETIC



00-Polished brass



A1-Satin brass



A2-Chrome

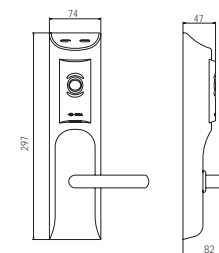


A8-Satin chrome

## CARATTERISTICHE TECNICHE

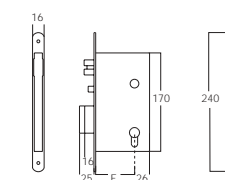
### WAVELOCK Electronic unit

Power supply: 4 alkaline batteries AALR6 1.5-Volt (supplied)  
 Battery life: ≥ 15,000 cycles.  
 Audit trail: 500 events (mechanical override included)  
 Operating temperature: 0 – 70 °C  
 RAM inside  
 Up to 60 auto-programmable timetables and choice of 3 states: normal, always ON (open), access denied (guest and/or staff).



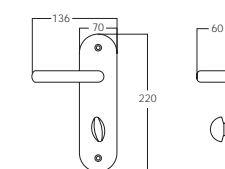
### Euro mortise lock

Latch and 16 or 25 mm (on request) deadbolt.  
 Panic release feature: latch and deadbolt retract simultaneously.  
 Anti-friction latch and anti-theft piston.  
 Fire rating: 3 hours (finish INOX – code 20)  
 Available back-set (mm): E= 60, 70, 80, 90.  
 Automatic deadbolt model on request  
 ANSI model for USA markets available on request.  
 Strike plate on request.



### Inside trim

Lever handle will retract latch and deadbolt simultaneously.  
 Thumbturn for withdrawal of deadbolt (standard model only) and to activate privacy indicator (both in standard and automatic deadbolt models).

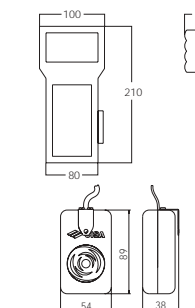


### AUTONOMOUS NETWORK

RS485 like, up to 10 Km  
 Cable type: telecom, TR/R ATOX – FLAM (CEI 46.5)  
 2p (Twisted) + G not shielded

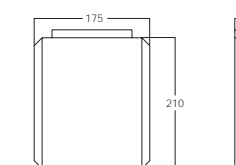
### WAVEMOBILE

Login and operation audit trail: 2,100 events.  
 Operators: 250 (card + password)  
 Active cards audit trail: 2,400  
 Main power supply: 220Vac 50 Hz (110Vac 60Hz available on request)  
 Alternate power supply: 4 alkaline batteries AALR6 1.5-Volt (supplied)  
 Backlit display: 6 columns per 16 lines  
 Buzzer (sounding key pad)  
 RS232 serial port for PMS interface or Smart reporting. Network port.



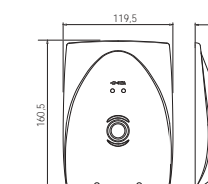
### ACCESS CONTROL Control unit

Main Power supply: 220Vac 50Hz (110Vac 60Hz available on request).  
 On board relay: NO/NC (120Vdc/240Vac 5A).  
 Programmable access time delay: from 0.01 sec to 10 min.  
 Audit trail (off-line) : 8,000 events (off-line configuration).  
 Black list: 1,000 cancelled cards.  
 60 auto-programme timetables available with 3 states: normal, always ON (open), lock-out (guest and/or staff).  
 Distance from wave reader (m): 20 max.  
 wave readers per control unit: 2 max.



### Wave Reader

Weather proof.  
 2 high visibility LEDs display (green and red)  
 Standard cable length (m): 5 (supplied)  
 Fixing screws supplied.  
 Distance from the control unit (m): 20 max  
 Operating temperature range: 0 – 70°C



### ENERGY SAVING

Power supply: 24Vac 50Hz  
 Max output voltage: 24Vac  
 Outside power: 75VA at start, 15VA continuous

