# Natron WE-A

## Addressable fire alarm wireless gateway module

## with built-in isolator

- Bi-directional wireless communications
- Up to 5 wireless getaways to iRIS8/iRIS4 addressable panel
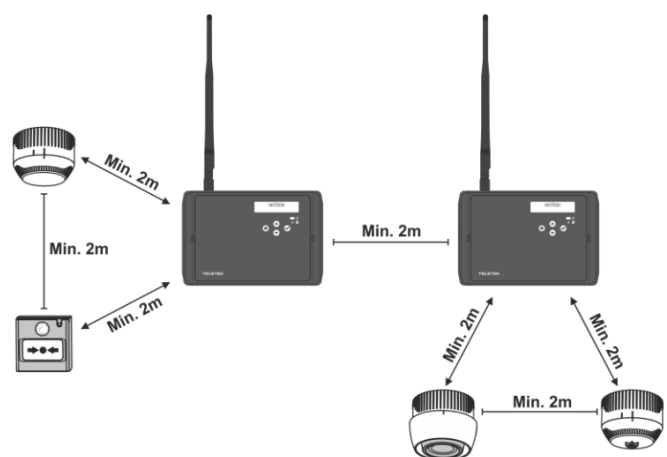- Up to 32 NATRON series wireless devices enrolled to a gateway module

Natron WE-A is an addressable wireless gateway module designed for operation with iRIS8 and iRIS4 addressable fire alarm panels. Natron WE-A is powered directly by the loop line and can be controlled via the communication protocol. Natron WE-A has a built-in isolator module.

Up to 5 Natron WE-A wireless getaway modules can be connected to a single iRIS8/iRIS4 fire alarm control panel. Natron WE-A communicates with Natron series wireless devices enrolled to its configuration. Up to 32 wireless devices can be enrolled to each gateway module, giving a total of 160 wireless devices per system. Each wireless device receives an own address in the panel configuration and can be managed independently.

Natron WE-A is mounted in a compact plastic enclosure box suitable for wall mounting. The information of the status of the enrolled wireless devices is presented on a LCD text display. A dipole SMA type antenna is supplied with the gateway module to ensure wide covering range and stable communication with the enrolled wireless devices.

## Features

- Built-in isolator module
- Up to 5 wireless gateway to iRIS8/iRIS4 addressable panel
- Up to 32 NATRON series wireless devices enrolled to a gateway module
- 160 wireless devices per system
- Dipole antenna, SMA connector type
- Event messages for wireless device status: low battery, tamper, lost device
- Menu for reviewing the signal strength of the enrolled devices
- LCD display, dot matrix 16x2
- Loop powered
- Multilanguage menus
- Standards applied: EN 54-18; EN 54-17; EN 54-25

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# Technical Specifications

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|---|---|
| Loop Characteristics:<br>- Operating voltage<br>- Nominal consumption, LCD display ON<br>- Nominal consumption, LCD display OFF<br>- Max. consumption, LCD display ON<br>- Max. consumption, LCD display OFF | 17-30V DC<br>12mA@29V DC<br>9mA@29V DC<br>17mA@16V DC<br>13mA@16V DC |
| Radio frequency | 868MHz |
| Communication type | Bidirectional |
| Communication protocol | NATRON TTE |
| Radio signal modulation type | GFSK |
| Number of frequency channels | 6 pair channels |
| Radiated power | ≤ 25 mW |
| Receiver category (EN300-220-1) | 1.5 |
| Max. connected wireless expanders to iRIS8/iRIS4 panel/building | 5 |
| Max. enrolled wireless devices to an expander module | 32 |
| Communication range with Natron wireless devices (open space*)<br>* Depends on system/control panel capacity and building structure | 1500m |
| Trace attenuation | > -90dBm |
| Antenna:<br>- Type<br>- Frequency<br>- Impedance<br>- Type of Radiation<br>- Gain<br>- Connector type<br>- Dimensions | Dipole antenna<br>866-870MHz, Center 868Mhz<br>50Ω<br>Omni-directional<br>2 dBi<br>SMA Male (Swivel)<br>242x12.5mm |
| Operation temperature | -10°C to +55°C |
| Related humidity resistance (no condensation) | (93±3)%@ 40°C |
| Enclosure box:<br>- Material<br>- Dimensions<br>- Color<br>- Protection<br>- Weight (with mounted PCB and antenna) | ABS<br>191x125x60mm<br>RAL 7024 (graphite grey)<br>IP66/68<br>~ 180g |