Natron WE-C

EN 54-18
EN 54-25

Conventional fire alarm wireless gateway module

- Bi-directional wireless communications
- Up to 5 wireless gateways to conventional panel/building*
- Up to 32** NATRON series wireless devices enrolled to a gateway module

Natron WE-C is a wireless gateway module designed for operation with conventional fire alarm panels, including MAG series panel, produced by Teletek Electronics JSC. Natron WE-C is powered from external power supply with back-up battery. The module is equipped with special inputs for monitoring the main and back-up power supplies.

Up to 5 Natron WE-C wireless getaway modules can be connected to a single conventional fire alarm control panel. Natron WE-C 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.

Natron WE-C 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. The programming of the wireless devices parameters is from the module menus.

A dipole SMA type antenna is supplied with the expander module to ensure wide covering range and stable communication with the enrolled wireless devices.

Features

- Specially designed to work with any conventional fire alarm panel
- Direct connection to conventional zone terminal
- Compatible for operation with MAG series and third-party conventional fire alarm control panels
- Up to 5 wireless gateways to conventional panel/building*
- Up to 32** NATRON series wireless devices enrolled to a gateway module
- Up to 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
- Multilanguage menus
- Standards applied: EN 54-18; EN 54-25

** The number depends on the type of the conventional panel and the capacity of the system.*
*** The number of enrolled NATRON devices depends on the number of the current connected wired devices to the conventional zone. Up to 32 wired and wireless detectors can be connected to a conventional zone.*

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Technical Specifications

Power supply (External power supply unit, EN 54 compatible)	24 VDC ± 10%
Consumption: - Nominal consumption, LCD display ON - Nominal consumption, LCD display OFF - Max. consumption, LCD display ON - Max. consumption, LCD display OFF	 17mA@24V DC 14mA@24V DC 19mA@20V DC 15mA@20V 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 conventional panel*	Up to 5
Max. enrolled wireless devices to an expander module	32
Communication range with Natron wireless devices (open space**)	1500m
Trace attenuation	> -90dBm
Antenna: - Type - Frequency - Impedance - Type of Radiation - Gain - Connector type - Dimensions	 Dipole antenna 866-870MHz, Center 868Mhz 50Ω Omni-directional 2 dBi SMA Male (Swivel) 242x12.5mm
Operation temperature	-10°C to +55°C
Related humidity resistance (no condensation)	(93±3)%@ 40°C
Enclosure box: - Material - Dimensions - Color - Protection - Weight (with mounted PCB and antenna)	 ABS 191x125x60mm RAL 7024 (graphite grey) IP66/68 ~ 200g