WaveSYS Technical Specifications

Main Power	16.5V AC - 40VA
Auxiliary Power	12V DC - 1.5A
Battery – maximum allocatable	12V DC - 17 Ah
Programmable outputs on main board	6 – one 3A relay, one 500mA open collector and four 70mA O.C.
Operating Temperature	0°C –55°C
Box Dimensions	304 x 300 x 97 mm (H x W x D)

Ordering Information

	Part Number	Description
WaveSYS Main Box	RW140P0x0xxx	WaveSYS Main Box xxxx version
Keypads	RW140KWL000A	Wireless Keypad 868 MHz
	RW140KWL000H	Wireless Keypad 433 MHz
	RP128KCL000A	LCD Keypad
Expansion Receivers	RP128EW0800A	8 zone receiver 868 MHz
	RP128EW1600A	16 zone receiver 868 MHz
	RP296EW0800A	8 zone receiver 433 MHz
	RP296EW1600A	16 zone receiver 433 MHz
Universal Transmitters	RWT72M86800A	Door Contact + Magnet Transmitter 868 MHz
	RWT72C86800A	Universal Transmitter 868 MHz
	RWT72X86800A	Double Contact Transmitter 868 MHz
	RWT72P86800A	Transmitter for Shutter pulses 868 MHz
	RWT71EUMV2	Door Contact + Magnet Transmitter 433 MHz
	RWT71EUV2	Universal Transmitter 433 MHz
	RWT71EUPV2	Transmitter for Shutter pulses 433 MHz
4 Button Keyfobs	RP128T4RC00A	4 Button Rolling Code Keyfob 868 MHz
	RP296T4RC00A	4 Button Rolling Code Keyfob 433 MHz
	RP128T4Z000A	4 Button zone keyfob 868 MHz
	RWT540000EUA	4 Button zone keyfob 433 MHz
PIR Detectors	RWT92086800A	Wireless PIR Detector 868 MHz
	RWT90EUV2	Wireless PIR Detector 433 MHz
PET Detectors	RWT92P86800A	Wireless PIR PET Detector 868 MHz
	RWT90PEU000A	Wireless PIR PET Detector 433 MHz
Pendant Transmitters	RWT50P86800A	Pendant Transmitter 868 MHz
	RWT50EUV2	Pendant Transmitter 433 MHz
Smoke Detectors	RWT32S86800A	Wireless Smoke Detector 868 MHz
	RWT30EUV2	Wireless Smoke Detector 433 MHz
Installer Accessories	RP128UDIN000A	Rokonet Upload/Download Software CD
	RP128EUSB00A	USB/485 Adaptor
	RP296EBA000A	RS232/485 Adaptor
	RP128EE0000A	Program Transfer Module

CE

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7LF600Q

The Ultimate Wireless Security System

WaveSYS
Wireless Security Systems

ROKONET's WaveSYS Security Systems offer a unique combination of form, functionality and advanced technology. Designed for high performance, reliability, easy installation, and seamless integration with a wide range of accessories, these superior systems offer the perfect solution for wireless security needs.

Operating in the 868MHz or 433MHz ranges and supporting major international standards, WaveSYS meets the stringent and challenging new requirements while providing the best performance for reliability and range on the market today.

WaveSYS Benefits
◆ Hidden control panel installed separately from the wireless keypad, for higher security.
◆ PLL based 433 or 868 MHz frequency generation assures stability and resistance to interference.
◆ Simple installation; Signal level from each detector is presented on LCD keypad during installation, eliminating the need for using a signal strength meter.
◆ Automatic threshold (sensitivity) calibration, adjustable for higher false alarm and jamming immunity.
◆ The sophisticated protocol includes 1 of 16 million addresses, increasing security while significantly reducing random interference and thus false alarms.
◆ High-End security features such as: supervision of all detectors, dip-switch free transmitters, tamper, low battery and jamming indication.
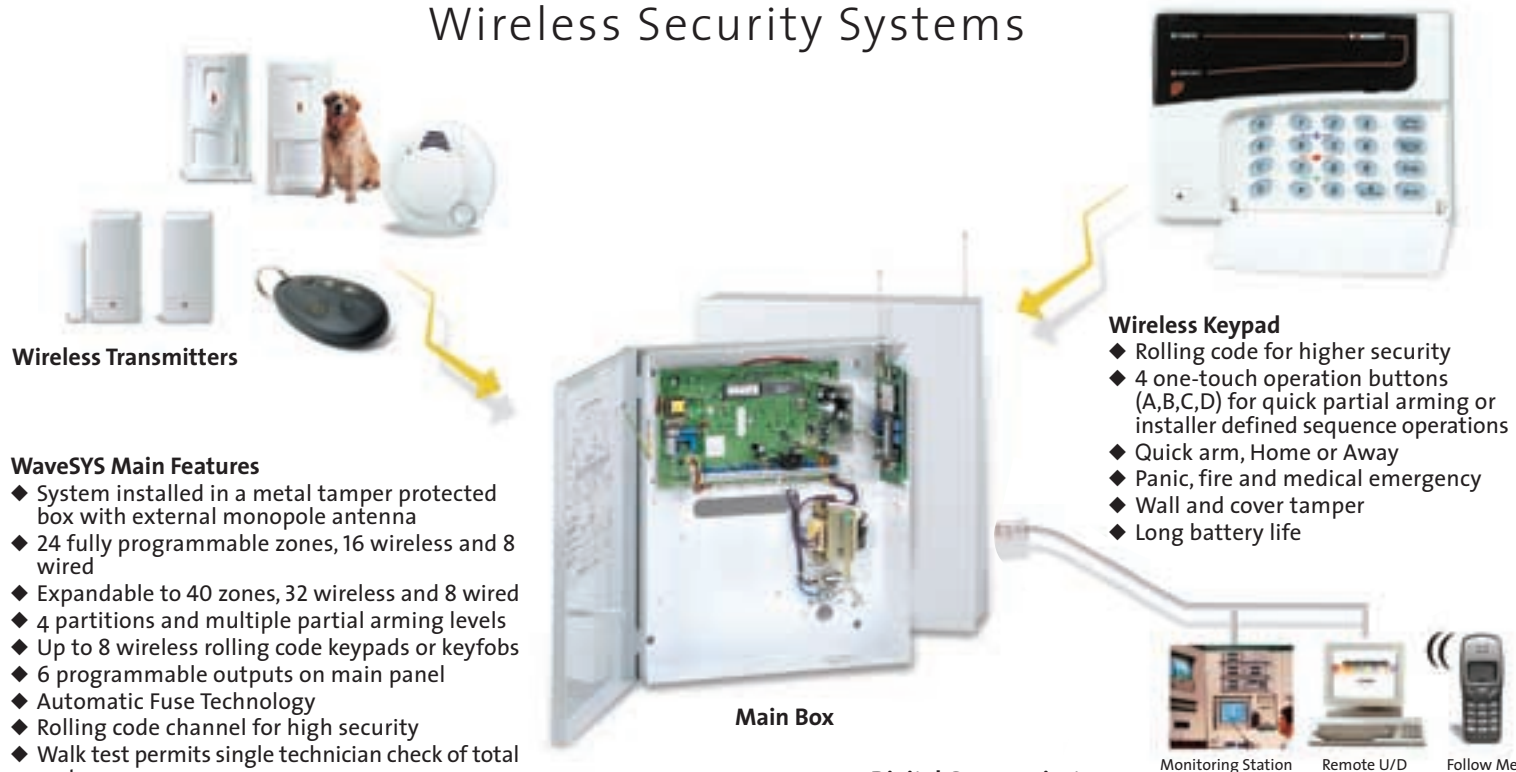
ROKONET
R I S C O   G R O U P
Intelligence in the Service of Security

WaveSYS
Wireless Security Systems

Wireless Transmitters

WaveSYS Main Features
◆ System installed in a metal tamper protected box with external monopole antenna
◆ 24 fully programmable zones, 16 wireless and 8 wired
◆ Expandable to 40 zones, 32 wireless and 8 wired
◆ 4 partitions and multiple partial arming levels
◆ Up to 8 wireless rolling code keypads or keyfobs
◆ 6 programmable outputs on main panel
◆ Automatic Fuse Technology
◆ Rolling code channel for high security
◆ Walk test permits single technician check of total system
◆ Flexible scheduling capability for automating operations
◆ 250-event log expandable to 512

Main Box

Wireless Keypad
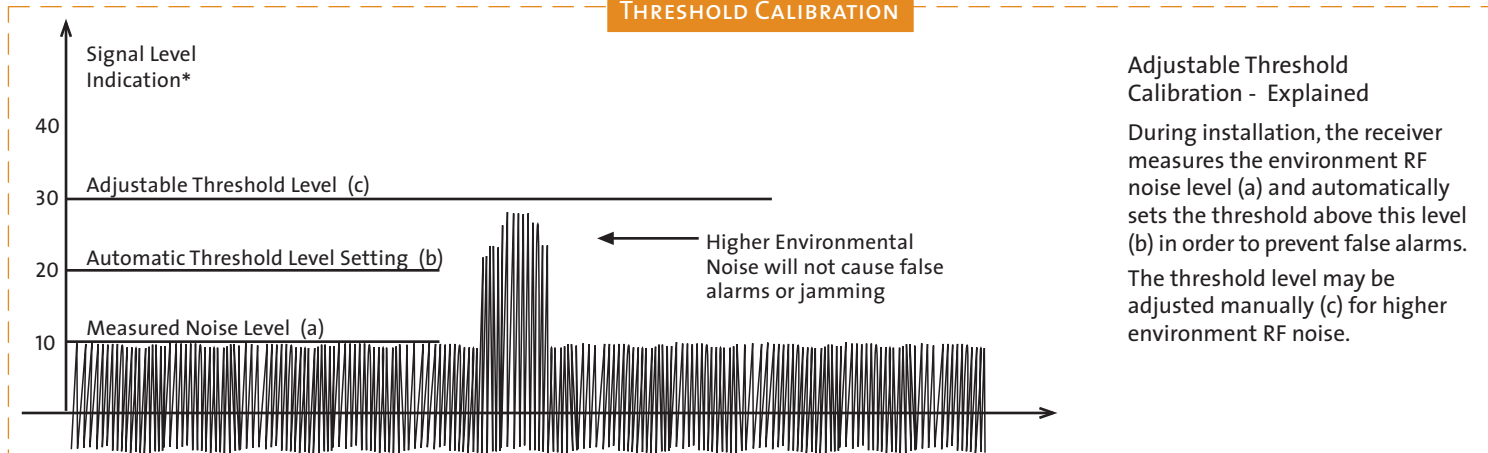◆ Rolling code for higher security
◆ 4 one-touch operation buttons (A,B,C,D) for quick partial arming or installer defined sequence operations
◆ Quick arm, Home or Away
◆ Panic, fire and medical emergency
◆ Wall and cover tamper
◆ Long battery life

Monitoring Station   Remote U/D   Follow Me

Digital Communicator
◆ Built-in digital communicator supporting all major communication formats
◆ 3 central station phone numbers
◆ Windows based remote and local Upload/Download with database sharing
◆ 8 different account numbers - to associate account numbers according to backup monitoring station requirements
◆ 8 follow-me numbers

Threshold Calibration

Signal Level Indication*

40
30
20
10

Adjustable Threshold Level (c)
Automatic Threshold Level Setting (b)
Measured Noise Level (a)

← Higher Environmental Noise will not cause false alarms or jamming

Adjustable Threshold Calibration - Explained

During installation, the receiver measures the environment RF noise level (a) and automatically sets the threshold above this level (b) in order to prevent false alarms.

The threshold level may be adjusted manually (c) for higher environment RF noise.

* Presented on LCD Keypad during the installation

WaveSYS Wireless Transmitters

Rokonet's comprehensive line of Wireless Transmitters provides maximum flexibility for any wireless security application. Using the latest in RF technology these easy-to-install units ensure superior reliability and range.

Universal Transmitters
For wireless perimeter protection
The Universal Transmitters are supervised and can be connected to door and window magnetic contacts or to other sensors.

Universal Transmitter Features
◆ Range up to 400m (1300') line of sight
◆ Enables wireless operation of any NO or NC contact detector
◆ Internal reed contact and external magnet
◆ Can be used with shock sensors
◆ Selectable response time (10 msec, 400 msec)
◆ Double input and pulse count models for shutter protection
◆ Sends alarm and restore signals, preventing panel arming when the zone is in state of alarm
◆ Cover and back tamper
◆ Low battery transmission and LED indication
◆ Test mode for installation testing
◆ Uses one of 16 million codes without dipswitches
◆ Fully supervised – transmits status signal every 65 minutes
◆ Includes 3V lithium battery with 5 year battery life

4 Button Keyfobs
4-function miniature transmitter
The 4 Button Keyfob is a miniature transmitter used for remote control of the WaveSYS system. Functions include arm/disarm, panic, and programmable output control.

4 Button Keyfob Features
◆ Range up to 200m (650'), line of sight
◆ With or without rolling code
◆ Pocket size for key ring or pendant mounting
◆ Low battery transmission and LED indication
◆ Uses one of 16 million codes without dipswitches
◆ Includes lithium battery with 3-year battery life

PIR Wireless Detectors
Microprocessor controlled wireless PIR detector
The PIR Wireless Detector is a wall mount passive infrared wireless detector available with two interchangeable lenses – a wide-angle 15m (50') meter lens or a long-range 25m (75') lens.

PIR Wireless Detector Features
◆ Range up to 400m (1300') line of sight
◆ Coverage: wide-angle lens 15m (50') 100º
◆ Long range lens 25m (75')
◆ Normal mode: 2.5 minutes; test mode (hold-off)
◆ Pulse count: 1 to 3
◆ Creep zone for close in detection
◆ Temperature compensation algorithm with DSP
◆ Cover and back tamper switches
◆ Low battery transmission and LED indication
◆ Transmits supervising status signal
◆ Uses one of 16 million codes without dipswitches
◆ Includes long-life 3V lithium battery

PIR PET Wireless Detector
Microprocessor controlled wireless PIR PET immune detector
The PIR PET Wireless Detector is a wall mount passive infrared detector with pet immunity of up to a 36kg (80lb) dog or 5 cats.

PIR PET Detector Transmitter Features
◆ Range up to 400m (1300') line of sight
◆ Coverage of 8m (26') 90º
◆ Unique VPT (Variable Pet Threshold) pet immunity algorithm
◆ Normal mode: 2.5 minutes; test mode (hold-off)
◆ Pulse count: 1 to 3
◆ Creep zone for close in detection
◆ Temperature compensation algorithm with DSP
◆ Cover and back tamper switches
◆ Low battery transmission and LED indication
◆ Transmits supervising status signal
◆ Uses one of 16 million codes without dipswitches
◆ Includes long-life 3V lithium battery

Wireless Smoke Detector
The Wireless Smoke Detector is a ceiling mount photoelectric smoke detector for adding wireless fire warning capability to the WaveSYS.

Wireless Smoke Detector Features
◆ Range up to 400m (1300') line of sight
◆ Ceiling mounted
◆ No radiation emission
◆ Restore transmission
◆ Test mode
◆ Low battery transmission
◆ Uses one of 16 million codes without dipswitches
◆ Status transmission every 65 minutes
◆ Back tamper
◆ Uses two 3 volt lithium batteries for up to 2 year battery life

Pendant Transmitter
The Pendant Transmitter is a push-button panic transmitter for use with WaveSYS systems.

Pendant Transmitter Features
◆ Range up to 150m (500') line of sight
◆ One button portable transmitter
◆ Low battery transmission and LED indication
◆ Uses one of 16 million codes without dipswitches
◆ Supplied with necklace
◆ Powered by a standard 12 volt alkaline battery