

SETUP & OPERATION GUIDE

106-110

RK5

5 Button Two Way Radio Key



Compact and versatile fully waterproof Radio Key with 5 buttons programmable to ELK and NESS Two Way Radio interfaces.

- 5 Colour-coded buttons
- 915-927MHz operation with 20 frequency hopping channels for enhanced security
- Dual colour LED display for radio acknowledgment, low battery, armed and alarm state
- Battery voltage and low battery reporting to compatible devices
- Field programmable radio protocol (Ness or Elk)
- CR2032 3V Lithium supplied (replaceable)



Compatible with:

101-292 Ness M1 TWR wireless transceiver
106-304 Ness TWR-SCR standalone transceiver
106-462 Ness X-TWR Interface for D8/D16
106-349 Ness Guardian-4G

NESS
CORPORATION

NESS RK5 SETUP & OPERATION GUIDE

Document Part No: 890-508

Rev 2 July 2026

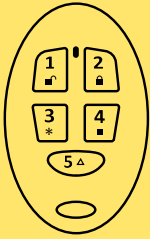
Applies to 106-110 Ness RK5 TWR 5 Button Radio Key

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KEY FUNCTIONS TABLE

				
		Wireless Protocol: NESS (Default)		Wireless Protocol: ELK (See page 4)
		106-349 Ness Guardian-4G	Ness DPlus Ness D8/D16 with 106-462 X-TWR Interface	Elk M1 with 101-292 M1-TWR Interface
BUTTON 1	One press	DISARM	DISARM	DISARM
BUTTON 2	One press	ARM	ARM	ARM
BUTTON 3	One press	AUX	AUX1	INFO
	Long press (2 sec)	AUX followed by INFO		INFO followed by AUX
BUTTON 4	One press	AUX2	AUX2 ¹ (DPlus only) Also see note ²	AUX+Panic #E3+ #E4
BUTTON 5	One press	PANIC ³	PANIC ³	PANIC ³
	Long press (5 sec)	Sends 1 & 2 together = learn signal for Guardian	Sends 1 & 2 together = learn signal for XTWR interface	Sends 1 & 2 together = learn signal for M1 TWR interface
	Press & hold	Field Programming mode for RK5		
Buttons 1 & 2 Together (Same as Button 5 Long press)		Sends 1 & 2 together = Learn signal for Guardian	Sends 1 & 2 together = Learn signal for XTWR interface	Sends 1 & 2 together = Learn signal for M1 TWR interface

¹ AUX2 via RK5 radio key is not available in D8/D16

² AUX2 operation on DPlus panels requires 106-462 X-TWR interface firmware to be V1.43 or later

³ The Panic button can be programmed to operate in delayed mode (default) or instant.
See Field Programming.

Note the various functions performed by short and long key presses.

KEY PRESS TYPE		ACK LED
One press	A brief press, 1 second	1 flash
Long press (button 3)	Press for at least 2 seconds	2 flashes
Long press (button 5)	Press for at least 5 seconds	2 flashes
Press & hold (button 5)	Press for at least 10 seconds	3 flashes

LED OPERATION	Ness DPlus/D8/D16 Ness Guardian 4G	Elk M1	DESCRIPTION
Fast Flashing Green	ALL KEY PRESSES		Transmit & Retry
Solid RED	ALL KEY PRESSES	ALL KEY PRESSES (ARMED State)	ACK of the key press
Solid GREEN	–	ALL KEY PRESSES (DISARMED State)	
Flashing RED	ALL KEY PRESSES		Radio Key low battery
Flashing RED	–	ALL KEY PRESSES	Panel in alarm state
Slow Flashing Yellow	PRESS & HOLD BUTTON 5		Key in Program Mode

BATTERY



The RK5 Radio Key comes with a user-replaceable CR2032 3V lithium battery.

To replace the battery use small screw-driver to twist the battery compartment anti-clockwise to the unlocked position and remove the cover.



Insert a new CR2032 battery with Positive (+) facing up. Replace the battery cover and turn the indicator to the locked position.

SPECIFICATIONS

Dimensions	35(W) x 60(H) x 14(D) mm
Visual indicator	Bi-colour LED
Battery	CR2032 3V Lithium supplied (replaceable)
Battery life, approx	5 years (If <7 transmissions per day)
Radio Range	100m line of sight
Radio frequency	915.8MHz-927.2MHz 20 channel frequency hopping
Compatibility	101-292 Ness M1 TWR wireless transceiver 106-304 Ness TWR-SCR standalone transceiver 106-462 Ness X-TWR Interface for DPlus/D8/D16 106-349 Ness Guardian-4G

FIELD PROGRAMMING

Programming the wireless protocol

RK5 Radio Key can be field programmed to use NESS or ELK wireless protocols.

NESS PROTOCOL (default)

Compatible with Ness Guardian 4G and Ness DPlus/D8/D16 series control panels via the optional 106-462 X-TWR Interface.

Also compatible with 106-304 Ness TWR-SCR standalone transceiver

ELK PROTOCOL

Compatible with Elk M1 control panels via the optional 101-292 M1-TWR interface.

PROGRAMMING STEPS

1. Press and hold Button5* to enter program mode.
2. Press Button3 twice to toggle the protocol type.

Note that RK5 does not indicate the selected protocol. The recommended practice is to perform the steps above then send a test signal to the system in use (eg, send arm or disarm).

Programming Instant or Delayed Panic

Button5 PANIC can operate in delayed mode (default) or instant.

- Delayed Panic requires Panic (Button5) to be held for at least 2 seconds to help prevent accidental activations.
- Instant Panic mode eliminates the delay and is available as an option.

PROGRAMMING STEPS

1. Press and hold Button5* to enter program mode.
2. Press Button4 twice to toggle Instant Panic to Delayed Panic.

** Press & Hold for at least 10 seconds. See the Key Functions Table.*