

LGMT434.v2

Genesis Masthead Receiver

The Masthead Receiver forms the core of a Genesis wireless system. Its purpose is to receive alarm data from Genesis wireless PIRs, beams and other sensors and pass it to a control unit (LGRU16) or compatible device via a RS232 link or USB for remote configuration using a laptop or PC.

The masthead receiver can transmit data as well as receive it and so can communicate back to the Genesis Walk Test instrument (LGWT434) to show all received information as well as the signal strength at the masthead. In addition, the Masthead can act as a repeater for systems that require a greater wireless range. Up to seven Mastheads can be used as repeaters on any one system.

The new push button and LED display makes it easier and quicker to programme units and there are several new features, including two configurable relays with volt-free contacts that can be assigned as alarm and/or tamper outputs for individual or grouped alarms or tampers.

The relays can also provide a physical contact change when the system is armed or disarmed, or they can connect to a door access system so that remote operation is possible from a keyfob (LGKF4). Additionally, the new version has two configurable transistor input/outputs that can be used in a similar way to the volt-free relays. For example, by switching the I/O to ground they act as input commands to set or unset the system from a hardwired keypad.

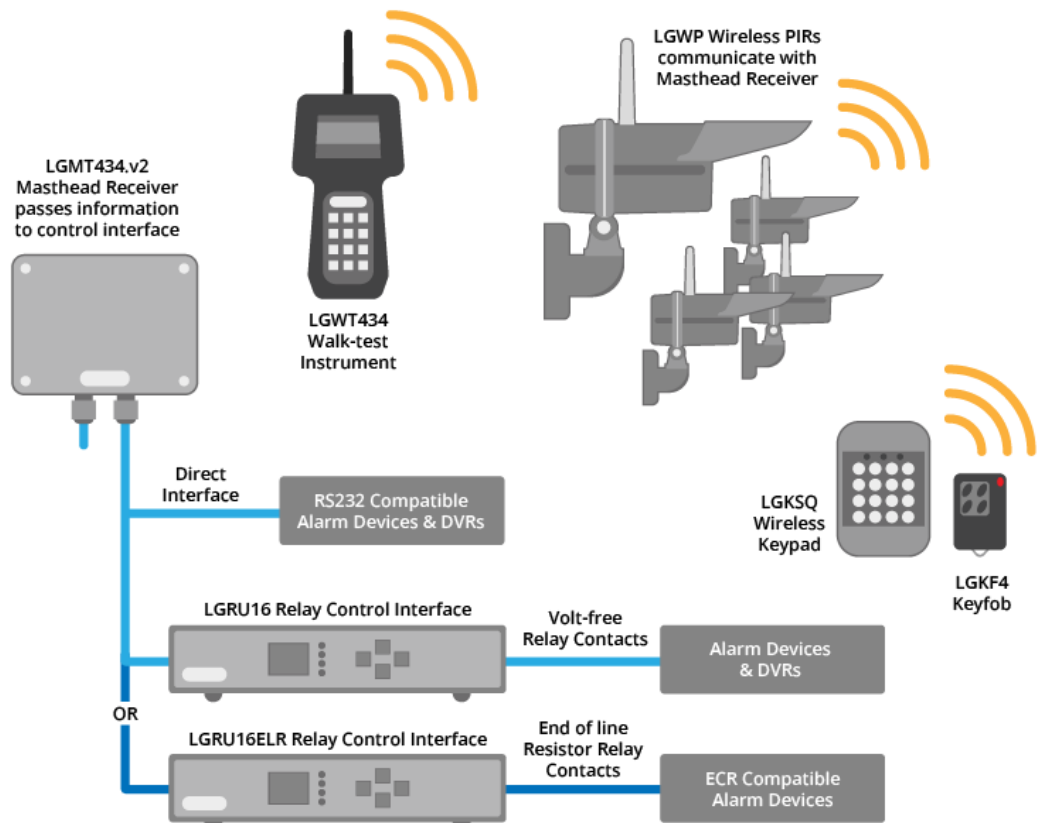


Installation

A system comprises up to 64 wireless PIR detectors that transmit to a single masthead receiver up to 1km in distance. The masthead outputs the alarm data in the form of ASCII text on RS232 which can then be connected to a relay control unit (LGRU16) that will convert this information into physical alarm contacts. You can also use the RS232 data to directly trigger a compatible alarm device. The protocol is open source and available on request. Note that a USB can also be used for remote configuration and the LGRU16 is also available with end of line resistors built in (see relevant datasheet).

The new version allows you to arm or disarm a site remotely using a wireless battery powered keypad (LGKSQ). This gives a two-way verified communication making the system BS8418 compliant. For non-verified remote arm or disarm, the keyfob (LGKF4) can be used to simply operate the relays or transistor I/O for other uses.

The receiver is supplied with an aerial, but you can add a high-performance external aerial (AE434) for maximum range and performance on difficult sites.



For Use With LGMT434.v2



Genesis LGWP
Wireless PIR
Detector



Genesis 2 LG2WP
Wireless PIR
Detector



LGWT434
Walk-test
Instrument



LGRU16 / LGRU16ELR
Relay Unit
16 Alarms & 16 Tamper



LGTX434
Wireless
Transmitter

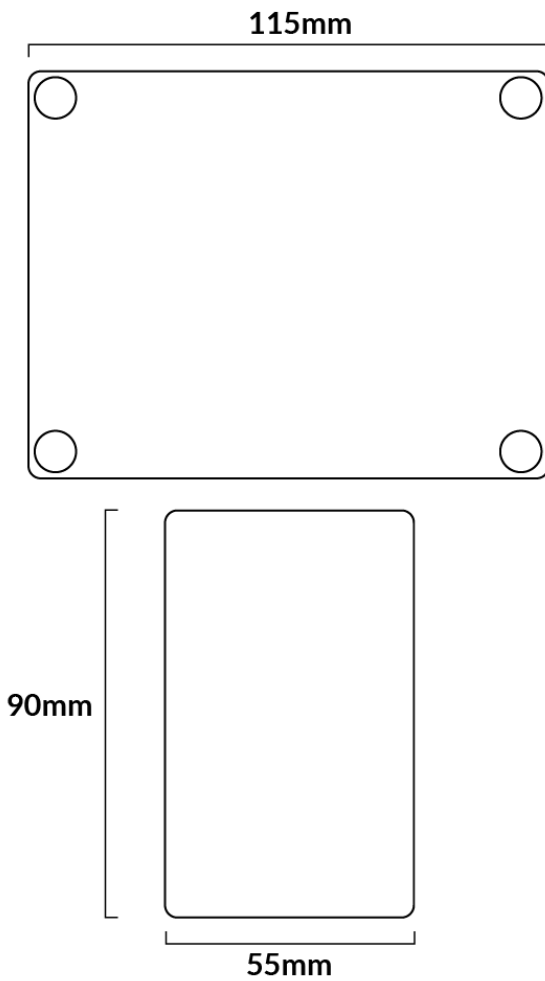


LGKSQ
Wireless
Keypad



LGKF4
Wireless
Keyfob

Dimensions



Technical Specifications

Receiver / Transmission Frequency	434.525Mhz
Reception / Transmission Range	1km line of sight
Aerial	50 ohm 1/4 wave
Site Codes	32
Unit Codes	64
Output	RS232 & USB
Operating Voltage	12v DC or 5v DC USB
Power Consumption	Max 58m/a at 12v DC
Temperature	-10°C to +60°C
Weather Rating	IP66
Enclosure	ABS plastic housing

