GLR43301240 and GLR2701240

Setup and programming instructions
for the 1 channel Gigalink™ receiver

Programming Videos

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IMPORTANT WARNING AND SAFETY INSTRUCTIONS

All installations and testing must be done only after reading and understanding all instructions carefully. All wirings should be done only by trained technical personnel. Failing to follow instructions and the safety warnings may result in serious injury and/or damage to property.

Elsema Pty Ltd shall not be liable for any injury, damage, cost, expense or any claim whatsoever to any person or property which may result from improper use or installation of this product.

Risk in the goods purchased shall unless otherwise agreed in written pass to the buyer upon delivery of the goods.

Any figures or estimates given for performance of goods are based upon the company's experience and is what the company obtains on tests. The company will not accept liability for failure to comply with the figures or estimates due to the nature of variable conditions affecting for example Radio Remote Controls.

Please keep this setup instruction for future reference.

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FEATURES

› Supply connection – 240VAC or 120VAC for export markets
› Single channel receiver with high capacity output relay
› Over 4 billion code combinations and can store unlimited number of transmitters
› Highly sensitive receiver input stage for extra long range applications
› Crystal controlled and powered by a toroidal transformer for high reliability and efficiency
› Modes include momentary, latching, 1-300 second delayed off, pulsing, security latching, on-off and custom
› Optional QM150 bracket available for easy mounting to cases or walls
› E version receiver available with a weatherproof case

DESCRIPTION

This Gigalink™ receiver can be connected directly to the mains supply, 240VAC. There is an on board switch to test the relay and a LED to indicate when the relay is "on". The receiver has a power "on" LED to indicate that the correct supply voltage is connected.

The receiver's micro-controller can store unlimited number of transmitters with a high security level using the encrypted 32-bit digital code. Included with the receiver is the Gigalink™ programming cable.

TECHNICAL DATA

Supply Voltage	240 Volts AC mains. 110, 115 or 120 VAC available on request only.
Frequencies for GLR43301240 **Frequency for GLR2701240**	433.920 (Standard), 433.664, 433.408, 433.152MHz 27.195MHz
Relay Output	Relay, rated at 8 Amps / 240V
Antenna	ANT433 series (433MHz Series) or ANT27 series (27MHz Series)
Compatible Transmitters	GLT433 MHz series, GLT27 MHz series

PROGRAMMING INSTRUCTIONS

The transmitter and receiver can be single channel programmed.

Single Channel Programming

Single channel programming can be achieved by following the steps below:

Step 1: Connect power to the GIGALINK™ receiver. **Make sure all switches on the mode dipswitch are off.**

Step 2: Momentarily short the two CC pins on the receiver board. This sets all the channels to a random code. If there are transmitters previously programmed, they will have to be re-programmed when CC pins are shorted. **Do not do this step if you want to keep previously programmed transmitters.**

Step 3: Connect the multi-channel transmitter to the multi-channel receiver by inserting the GIGALINK™ cable into the transmitters and receivers 2.5-mm Coding socket. (This will activate the programming mode and is indicated by the red light (LED), on the transmitter that must remain "on").

Step 4: **Activate one of the selected channels** on the transmitter for approximately one second, LED should blink twice to confirm code programming and then switch "off".

Step 5: Disconnect GIGALINK™ cable.

Repeat steps 3 to 5 to program another multi-channel transmitter.

If you are programming another transmitter, do not short out the CC pins. Shorting out the CC pins will delete all previously programmed transmitters.

SPECIAL PROGRAMMING FEATURE FOR GIGALINK™

Forward Programming

GIGALINK™ receivers have an additional programming feature, known as forward programming. This feature allows the user to program the transmitter code into the receivers. This will enable the transmitters to activate unlimited number of receivers simultaneously.

Step 1: Connect power to the receiver and transmitter.

Step 2: Place a jumper across the CC pins of the receiver.

Step 3: Connect the transmitter and receiver using the coding cable.

Step 4: Press the transmitter button for 2 seconds.

Step 5: Remove the coding cable.

Step 6: Remove the jumper from the CC pin.

The receiver is now programmed with the transmitter's code. Repeat the above steps to program another receiver.

MODE SETTING

The 3-way dip switch functions as a mode selector for the relay. User should set the receiver mode correctly. See the following table for different mode setting.

DIP Switch Mode Settings	
The output relay will respond in the following manner when receiving the correct signal from a transmitter.	
1 2 3	"Momentary": Relay on, only while correct signal is received
	"Latching": Relay alternates at every correct incoming signal
	"Delayed Off 1": Relay on, but delayed off for 1-10 seconds, adjustable by trimpot
	"Delayed Off 2": Relay on, but delayed off for 10-300 seconds, adjustable by trimpot
	"Pulsing": Relay will pulse at 1Hz for 10-300 seconds, adjustable by trimpot
	"Security Latching On": Relay will energize until supply to receiver is momentarily interrupted
	"On-Off": This mode requires a 2-channel transmitter. Transmitter channel 1 will always energize the relay. Transmitter channel 2 will always de-energize the relay. You must press both buttons at the same time during programming (Multi-channel programming). Pressing one channel only will not get the on/off function.
	"On-Off": This mode requires a 4-channel transmitter. Transmitter channel 3 will always energize the relay. Transmitter channel 4 will always de-energize the relay. You must press both buttons at the same time during programming (Multi-channel programming). Pressing one channel only will not get the on/off function.

ACCESSORIES AVAILABLE

Weatherproof Case
for receiver unit

Gigalink™ Coding Cable
For coding Gigalink
transmitters to receivers

Suitable Antennas
ANT27 series (27MHz Series) or
ANT433 series (433MHz Series)

QM150
Quick Mount for easy mounting
of receivers on walls.

TROUBLESHOOTING

This section contains helpful troubleshooting tips and solutions.

Symptom	Solution
Receiver not responding to transmitter after programming.	Try to program the transmitter again, but this time with the battery connected to the transmitter. Check if GIGALINK™ cable is inserted correctly.
Transmitter activates wrong channel on a multi-channel receiver.	Wrong dip switch setting while programming the receiver. Use the dip switch table and program again.
Transmitter has short range.	Check receiver antenna connection. If you are using a shielded coax cable, check that the shield is connected to the negative and the coaxial core to the antenna terminal.
LED is flashing on the transmitter.	Replace battery.

CUSTOMER SUPPORT

If your transmitter and receiver are still not operating properly, contact Elsema's support office at:

Phone: +61 (2) 9609 4668

Fax: +61 (2) 9725 2663

or you can visit our web site at **www.elsema.com** for the latest updates.

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