



GLR2701 and GLR43301

Setup and programming instructions
for the single channel Gigalink™ receiver

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FEATURES

- › Single channel receiver with relay output
- › Over 4 billion code combinations
- › Supply voltage can be AC or DC
- › Highly sensitive receiver input stage
- › Crystal controlled for high reliability
- › Can store unlimited number of transmitters
- › Modes include Momentary, Flip Flop, 1-300 second delayed off, pulsing, latching, on-off and custom
- › E version available with black ABS case
- › Optional QM100 bracket available for easy mounting to cases or walls.
- › Optional upgrade available for relay to an automotive relay rated at 15 Amps

DESCRIPTION

The Gigalink™ receivers use advanced remote control technology available in the world today by enabling just about all remote control applications to be operated with a single set of remote controls. No need to stock numerous brands or models just the Gigalink remotes. The Gigalink™ receiver's use a micro-controller to store encrypted 32-bit digital code. The Gigalink™ code gives the user more than four billion code combinations and several special features.

TECHNICAL DATA

Supply Voltage	11.0 - 28 VDC, 10.0 - 28 VAC. Can use Elsema DC or AC power supply, 12PP1000 or 24PP.
Current Consumption	10mA standby (27MHz Series), 8mA Standby (433MHz Series)
Frequencies for GLR2701	27.195 (Standard), 27.045, 27.145 and 27.455 MHz
Frequencies for GLR43301	433.920 (Standard), 433.664, 433.408, 433.152MHz
Relay Output	Relay, rated at 5 Amps / 240V, upgrade available
Recommended Antenna	ANT27 series (27MHz Series) or ANT433 series (433MHz Series)
Compatible Transmitters	GLT27 MHz series, GLT433 MHz series

PROGRAMMING INSTRUCTIONS

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).
- Step 3:** Connect the transmitter to the 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 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

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

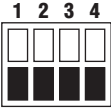








Forward Programming Steps:

- 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 4-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.	
	"Momentary": Relay on, only while correct signal is received
	"Flip-Flop": 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
	"Latching On": Relay will energize until supply to receiver is momentarily interrupted
	"On-Off": This mode requires a 2-channel Tx. Channel 1 will always energize the relay. Channel 2 will always de-energize the relay You must press both buttons at the same time during programming (channelised code programming). Pressing one channel only will not get the on/off function.
	"On-Off": This mode requires a 4-channel Tx. Channel 3 will always energize the relay Channel 4 will always de-energize the relay
	"Test": Relay is energized, for test purpose only

ACCESSORIES AVAILABLE



**UBB Plastic case for "E" version
GLR2701E/ GLR43301E**



Gigalink™ Coding Cable
For coding Gigalink
transmitters to receivers



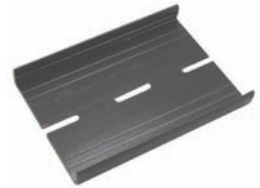
SUPREG12/24
Supply and Battery charger. Ideal
for charging backup battery and
supplying the receiver.



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



Suitable Power packs
12PP-1000, 12V DC 1000mA
24PP, 24V DC 500mA.



QM100
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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