



GLR2703, GLR2704, GLR43303 and GLR43304

Setup and programming instructions
for 3 and 4 channel Gigalink™ receivers

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FEATURES

- › 3 or 4 channel outputs
- › GLR2703/4-12, GLR43303/4-12 : 11.0 to 14.0 VAC/DC
GLR2703/4-24, GLR43303/4-24 : 21.0 to 28.0 VAC/DC
- › All outputs can be operated simultaneously
- › Over 4 billion code combinations
- › Highly sensitive receiver input stage
- › Crystal controlled for high reliability
- › Can store unlimited number of transmitters
- › Uses micro-controller technology that can be re-programmed to suit unique applications
- › Momentary, flip-flop and latching output modes is user selectable
- › Optional QM150 bracket available for easy mounting to cases or walls

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	GLR2703/4-12, GLR43303/4-12 : 11.0 to 14.0 VAC/DC GLR2703/4-24, GLR43303/4-24 : 21.0 to 28.0 VAC/DC. Can use Elsema's DC or AC power supply, 12PP1000 or 24PP.
Current Consumption	10mA standby (27MHz Series) 8mA Standby (433MHz Series)
Frequencies for GLR2703/4 Frequencies for GLR43303/4	27.195 (Standard), 27.045, 27.145 and 27.455 MHz 433.920 (Standard), 433.664, 433.408, 433.152MHz
Relay Output	Relays, 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

The transmitter/receiver can be channelised or single channel programmed

Channelised Programming

This is used to program all channels from a multi channel receiver to a multi channel transmitter. Channelised 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 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 any two channels simultaneously** on the multi channel transmitter for 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.

SINGLE CHANNEL PROGRAMMING

This is used for programming one channel at a time to the transmitter. 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:** Select the receiver channel, to be programmed, by setting the 4-way dip switch. See dip switch table below.

Dip Switch Setting				Receiver Channel (Output Relay)	Receiver Type
1	2	3	4		
Off	Off	Off	Off	1	GLR2703, GLR2704, GLR43303, GLR43304
On	Off	Off	Off	2	GLR2703, GLR2704, GLR43303, GLR43304
Off	On	Off	Off	3	GLR2703, GLR2704, GLR43303, GLR43304
On	On	Off	Off	4	GLR2704, GLR43304

- Step 4:** 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 5:** **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 6:** Disconnect GIGALINK™ cable.

Repeat steps 3 to 6 to program another transmitter channel.

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 user 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.

DIFFERENT MODES FOR THE OUTPUT

Modes are user selectable from the 4-way dipswitch. **Dipswitch 1 corresponds to output channel 1 and dipswitch 2 corresponds to output channel 2 and so on.**

Momentary Mode	If the dipswitch is "off" the output will be in momentary mode. (Relay is activated for as long as the transmitter button is pressed).
Flipflop Mode	If the dipswitch is "on" the output will be in flipflop mode. (Relay is activated when the transmitter button is pressed and will switch off only after the transmitter button is pressed again).
Latching Mode	If latching is required (Relay stays on until power is removed) the latching link should be inserted and soldered into the two holes to the right of the 4-way dipswitch. This will enable the corresponding outputs to latching.

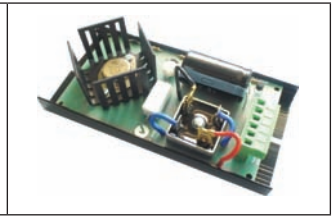
ACCESSORIES AVAILABLE



Weatherproof Case
for receiver unit



Gigalink™ Coding Cable
For coding Gigalink
transmitters to receivers



SUPREG12, SUPREG24
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.



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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