GLR43301240

1-Channel 433MHz Gigalink, Receiver with Mains AC Supply

Features

- Supply voltage 240VAC (also available in 110-120VAC supply for international markets)
- High efficiency toroidal transformer
- High capacity output relay
- Pluggable type terminal blocks for easy installation
- Test push buttons for the relay
- Momentary, latching, timed and security latching output modes can be selected by the user.
- Optional QM150 bracket available for easy mounting to cases or walls
- Also available in an IP66 rated case for outdoor installations.
- Power ON LED indicator.

Applications

- •Pump Control
- •Long distance light control
- •On/Off applications in agricultural devices
- •Basic Telemetry eg. Water level indication
- •Security alarm

Description

The GIGALINKTM, GLR43301240 is the most advanced Remote Control technology available in the world today. GIGALINKTM is an invention that has revolutionised the entire Remote Control technology including Elsema's earlier version of FMT- ... and FMR- ... series. The GLR43301240 state-of-the-art invention brings a new dimension in the world of Remote Control technology in domestic, commercial and industrial applications.

The toroidal transformer on this receiver is 25-30% more efficient than the conventional types. It has a low operating temperature, low hum and low stray magnetic field.

Connecting wires to the receiver has been made easier by the pluggable type terminal block. An on board LED indicates when power is connected and an extra LED on the board to indicate when the relay is activated. There is a test button for the relay output to test your connections.

There are test buttons for each relay output and a high quality SMA RF connector is added to the antenna connection on the 433MHz for optimum performance.

The receiver's high capacity output relay is capable of switching up to 16 Amps of resistive load and up to 8 Amps of inductive load. A world first for a standalone receiver.

The receiver can be mounted to a Quick Mount or in a weatherproof case with an IP66 rating.

Four billion codes

The user can easily change the code on all the channels. Momentary joining the two CC pins on the receiver board sets all channels to one random code. One of 4,294,967,296 possibilities is selected.

The receiver has a relay output that is activated when the GLR43301240 receives the correct code from the GIGALINK[™] transmitter. The relay out has voltage free contacts. Contacts available are "C" Common, "NC" Normally Closed and "NO" Normally Open.



Code Programming

For code programming, please refer to the separate programming instructions.

When programming is completed and the GIGALINK cable is removed from the receiver-coding socket, the 3-way dip switch is used to select different output modes. This is described below.

Different Modes for the Output

3-Way DIP Switch Mode Settings

The output relay will respond in the following manner when receiving the correct signal from a transmitter

1 2 3 On Off	"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
	"Security latching ": 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 <i>To use this mode you need to do channelised code programming. Do not use single code</i> <i>programming.</i>
	"On-Off": This mode requires a 4-channel Tx. Channel 3 will always energize the relay Channel 4 will always de-energize the relay <i>To use this mode you need to do channelised code programming. Do not use single code</i> <i>programming.</i>

Momentary - Output is active for as long as the transmitter button is pressed. *This is a standard mode on most automatic gates or garage door openers.*

Latching - Output remains active until next press of the transmitter button. *Similar to switching "on" and "off" a light.*

Security - Output remains active until power to the receiver is removed. Similar to security alarms and fire alarms.

Customised Software

Custom output modes can be programmed to do special functions. Call Elsema for more details.

240 AC Supply, Antenna and Relay Connections

AC power supply and relay connections are via the pluggable type terminal block. Antenna is via a two-way pluggable type terminal block. Do not connect the supply to the 2.5-mm coding socket since connection will damage the microcontroller.

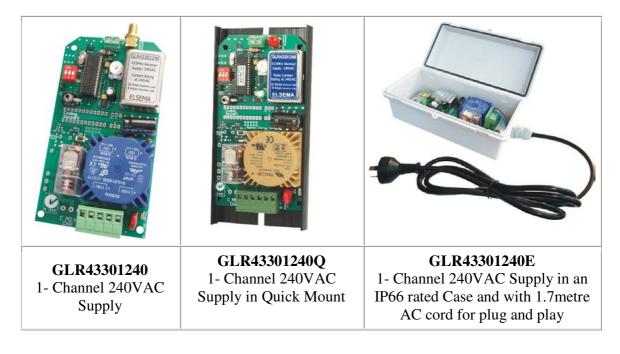
Applications

The receiver output can be set to different modes which allows it to be used in many diverse applications such as automatic gates, security, timer controlled outputs and simple on/off functions etc.

Unique Code System

The microcontroller EEPROM allows large volume users to have a unique code. This enables Elsema to offer everyone "your own" radio control.

Available with Options



Products in the Range

GLR43301 1-Channel	GLR43301240 1-Channel, 240V	GLR43302 2-Channel	GLR43302240 2-Channel, 240V	GLR4330312, 3-Channel, 12 - 24V
				CLEARABILITY Handre Status Clearability C
GLR4330412 4-Channel, 12 - 24V	GLR43304240 4-Channel, 240V	GLR43308 8-Channel	GLR4330812 8-Channel, 12-24V Relay Output	GLR43301SS GLR43302SS Receiver with 6-way female connector GLR43301SST GLR43302SST Receiver with terminal block

Technical Data

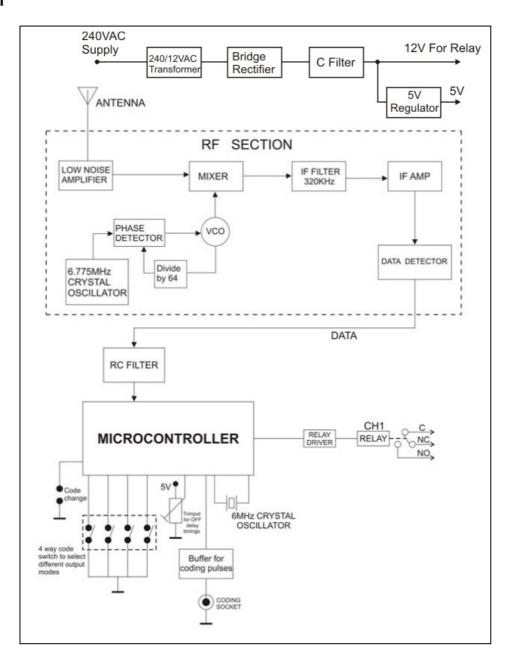
Volts AC Mains 120VAC available on request)
A, on 240V AC
920MHz (Other frequencies available on request. Refer to the table below)
o 50°C
er than 1.0uV (For output to switch on)
olitude Shift Keying (ASK)
rocontroller (32-bit word 4.29 x 10 ⁹ codes)
4,967,296
nge over relay output, rated at 16 Amps of resistive load and up to 8 Amps of ctive load.
oly, Antenna & Outputs - pluggable type terminal blocks
ma's ANT433MHz series antennas or piece of approximately 690 mm long for short range applications.
x 70 x 37mm
mm or 5/32"
Elsema Type 433MHz GLT series

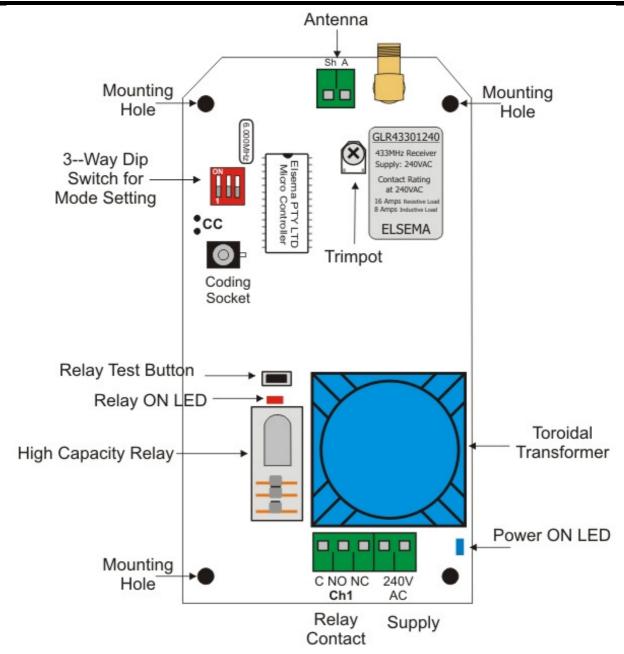
Available Frequencies

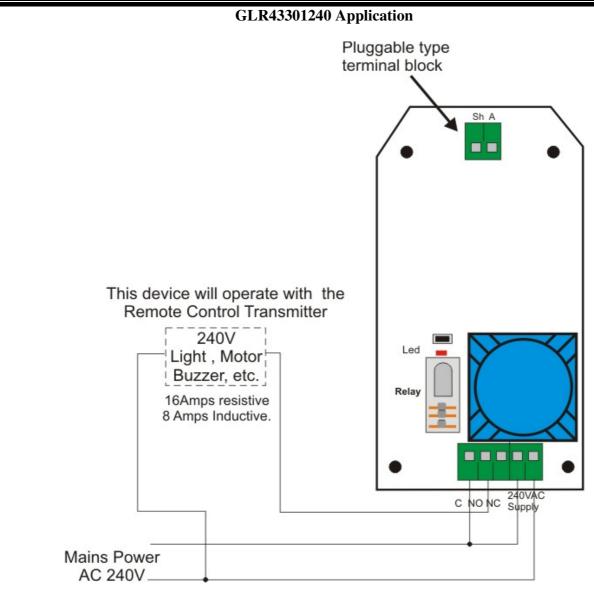
SF2	433.664 MHz
SF3	433.408 MHz
SF4	433.152 MHz
SF5	434.688MHz
SF6	434.432 MHz

Special Frequency products can be made upon request. There is a minimum quantity order of 10. Please quote Correct SF number when ordering transmitters on special frequencies.

Block Diagram







Manufactured by

Elsema Pty Ltd 31 Tarlington Place, Smithfield NSW, 2164. Ph: 02 9609 4668 Fax: 02 9725 2663 Website: http://www.elsema.com