

# GLT43316

2-Stroke 16-Channel 433MHz Gigalink™ Transmitter

## Features

- 16-Channel transmitter
- More than four billion code combinations and no dipswitch visible, enabling it to be used for high security applications.
- 433 MHz transmissions. No interference from electrical noise and other signals.
- Microcontroller technology, replaces the traditional dip switch coding which eliminates any possible code grabbing.
- Built-in battery monitor. Red LED indicates to the user when the battery is flat.
- Ability to program un-limited number of transmitters to a receiver, making expandability unlimited.
- Uses Gigalink technology, this involves using a receiver cable to program the transmitter. Some transmitters and receivers are programmed through the air. This is very risky since another person can grab your code.



## Applications

- Allowing the user to combine up to 16 receiver channels to one transmitter
- Security, wireless activation/deactivation of domestic or industrial alarms
- Gate operation
- Panic buttons
- Remote Activation of lights
- Simultaneous operation of multiple on/off functions

## Description

The GLT43316 is a 2-stroke 16-channel transmitter. This means that the transmitter can be programmed with 16-channels, each channel having two numbers assigned. For example, channel 1 could be programmed to number 24. This would require the user to press button number 2 and then 4 to activate channel 1.

*This transmitter is used in applications where the user will need to press the button twice to activate the channel. If you have the transmitter in your pocket you may squeeze the transmitter button resulting in a false activation. By using 2-strokes on the keypad this is greatly reduced since two button actions need to occur in quick succession.*

The hand held 433MHz GIGALINK™ transmitter is an advanced Remote Control technology available in the world today. GIGALINK™ is an invention that has revolutionised the entire Remote Control technology including Elsema's earlier version of FMT- ... and FMR- ... series. The GLT43316 state-of-the-art invention brings a new dimension in the world of Remote Control technology in domestic, commercial and industrial applications. During programming both buttons must be pressed sequentially.

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**Operating Distance**

An operating distance (in conjunction with our GLR433.. series receivers) of 350 metres is possible.

The operating distance depends upon the receiver antenna and location. An independent test revealed the following ranges:

Range (Metres)	Receiver Antenna	Receiver Type
50	345 mm Long Wire	GLR433....
200	690 mm Long Wire	GLR433....
350	ANT433S	GLR433....

Range tests were done in an open area test site with line-of-sight operation and the receiver antenna wire was fixed vertically, away from any metal objects.

**Case**

The hand held GIGALINK™ transmitters are supplied with a case. There is also sufficient space on the rear of the case to place additional stickers such as your telephone contact, local authorities approval numbers etc.

**Single Code Programming**

This is used for programming one channel at a time to the transmitter. Single code programming can be achieved by following the steps below:

**Step 1 :** Check to see if power is connected to the GIGALINK™ receiver.

**Step 2 :** Select the receiver channel, to be programmed, by setting the dip switch on the receiver. Refer to receiver setup instruction for correct dip switch setting.








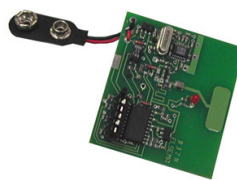
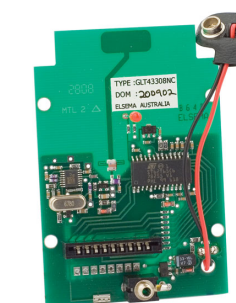



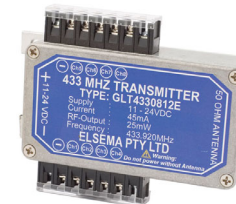

**Step 3:** Connect the transmitter to the receiver by inserting the GIGALINK™ cable into the 2.5-mm sockets. This will activate the programming mode and is indicated by the red light (LED) on the transmitter that must remain “on”.

**Step 4 :** Press first then the second button sequentially (Both buttons should be pressed within 1 second of each other) on the transmitter, LED should blink twice to confirm code programming and then switch “off”.

**Step 5 :** Disconnect GIGALINK™ cable. The selected channel on the transmitter is ready to be used.

Steps 1 to 4 can be repeated to program another transmitter channel.

## Products in the Range

				
<b>GLT43300</b> Transmitter	<b>GLT43301</b> 1-Channel	<b>GLT43302</b> 2-Channel	<b>GLT43303</b> 3-Channel	<b>GLT43304</b> 4-Channel
				<i>NL: No label The Elsema Label is absent.</i>
<b>GLT43308</b> 8-Channel	<b>GLT43316</b> 2-Stroke, 16-Channel	<b>GLT43300NC</b> Transmitter, No Case Option Pin header	<b>GLT43308NC</b> 8-Channel, No Case	
				
<b>GLT4330112E</b> 1-Channel, 25mW	<b>GLT4330212E</b> 2-Channel, 25mW	<b>GLT4330412E</b> 4-Channel, 25mW	<b>GLT4330812E</b> 8-Channel, 25mW	<b>GLT4330812NC</b> 8-Channel, 25mW No Case

**Technical Data**

Power Supply	9V Battery (Applied to the battery clip)
Current Consumption	Max 45mA at 8VDC supply (only when transmitting)
Standby Current	10uA (Typical)
Transmission Modes	Burst: Transmits one 640ms burst for each channel activation, even if channel is activated for less than 640ms.
Battery Monitor	LED flashes at 1Hz, during transmission, when battery voltage is at 6.5V (flat 9V battery)
Operating Freq	433.920MHz (Other frequencies available on request. Refer to the table below)
Carrier Freq Tolerance	Crystal controlled 30 parts per million
Operating Temperature Range	-5 to 50°C
Radiated RF Power Output	100uW
Antenna	Built-in loop Antenna
Type of Emission	AM 100% depth
Digital Coding System	Microcontroller based 96-bit word
Code Combination	Approximately 4.3 billion
Digital Channels	16 channels. Each channel has 2 numbers assigned
Dimension	81 x 56 x 24mm
Weight	51g excluding battery
Useable Receivers	GLR433... series
Useable Operating Range	Up to 350m; depending on receiver antenna and location

**Available Frequencies**

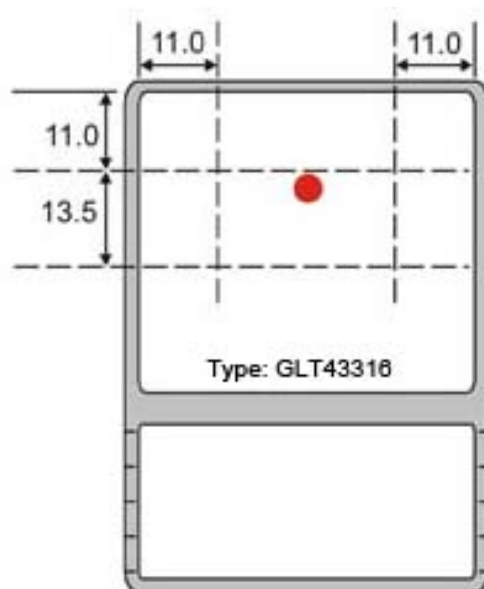
SF2	433.664 MHz
SF3	433.408 MHz
SF4	433.152 MHz
SF5	434.688MHz
SF6	434.432 MHz

**Special Frequency products can be made upon request. There is a minimum quantity order of 20. Please quote Correct SF number when ordering transmitters on special frequencies.**

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**Customised labels**

Customers can also fit their custom made labels. Details of label dimensions are given below.



Customers who wish to have their own membranes can contact us with their designs on (+61) 2 9609 4668

You can have your own company logo and specific text printed on the membranes. e.g. Up, Down, Right and Left or Start, Stop etc.

The minimum quantity for custom membranes is 50 pieces per order.

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