

# 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 dipswitch 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.



**GLT43316**

## Applications

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

## 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.

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.

## 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 (m)	Receiver Antenna	Receiver Type
50	345 mm Long Wire	GLR433 Series
200	690 mm Long Wire	GLR433 Series
350	ANT433S	GLR433 Series

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.

## Accessories



**6F22**  
9V Battery



**6LR61**  
9V Battery  
Alkaline

## Products in the Range



**GLT43301**  
1-Channel



**GLT43302**  
2-Channel



**GLT43303**  
3-Channel



**GLT43304**  
4-Channel



**GLT43308**  
8-Channel



**GLT43316**  
16-Channels



**GLT43300**  
1-4 Channels  
No Case



**GLT43308**  
8-Channel  
No Case

## 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.

## Technical Data

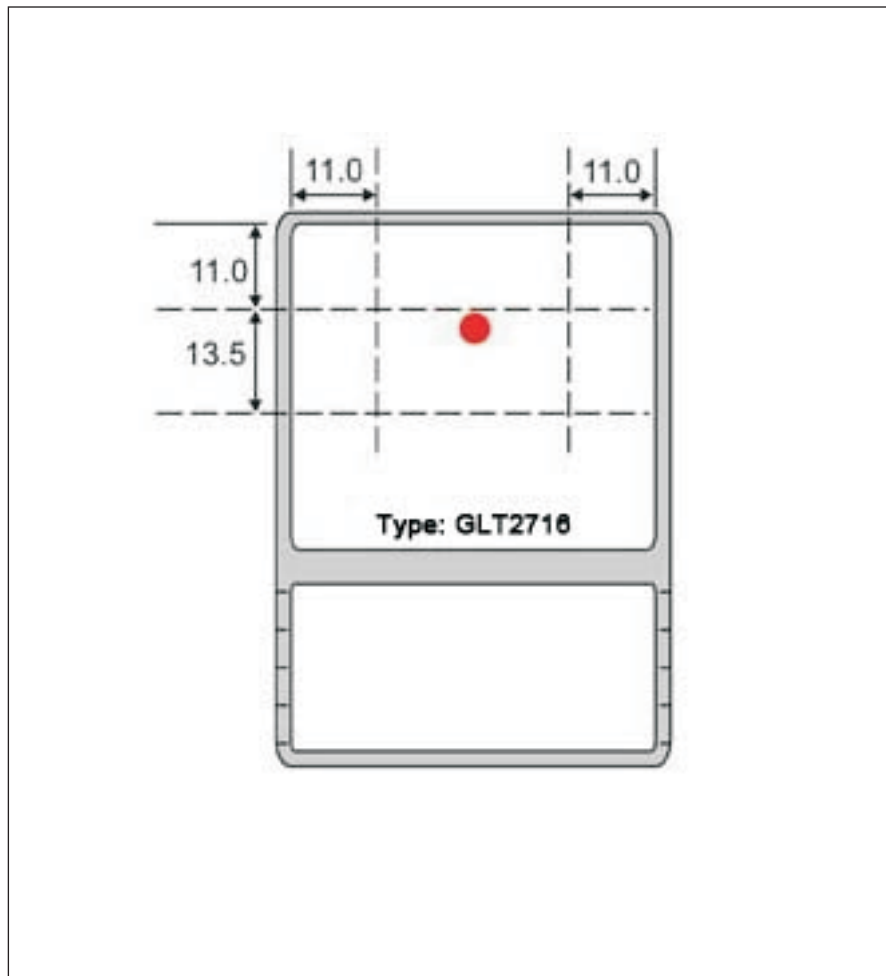
Power Source	9V Battery (Applied to the battery clip)
Current Consumption	Max 45mA at 8VDC supply (only when transmitting)
Standby Current	10uA (typical)
Transmission Modes	Continuous: Transmits as long as the channel is activated. Minimum transmission time is 640ms Burst (B version): Transmits one 640ms burst for each channel activation, even if channel is activated for less
Normal Operation	The LED flickers at 12.5Hz during normal operation
Low Battery Monitor	LED flashes at 1Hz, during transmission, when battery voltage is less than 6.5V (flat 9V battery)
Operating Freq	433.920MHz (Other frequencies available on request)
Carrier Freq Tolerance	Crystal controlled 30 parts per million
Operating Temperature Range	0 to 50°C
Radiated RF Power Output	100uW
Antenna	Built-in loop Antenna
Type of Emission	AM 100% depth
Modulation Freq	120Hz to 1.8kHz (15% tolerance)
Spurious Transmission	Passes IETS 300 220 : 1993
Necessary Bandwidth	±50kHz
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

**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.

**Customised Labels**

The transmitters are available without the front label. Customers can purchase the GLT43316NL, which is a hand held GIGALINK transmitter without the front label. This enables the customers to fit their custom made labels. Details of label dimensions are given on the following page. Customers will be provided with blank membranes, free of charge.



Elsema will provide (free of charge) blank membranes for customers who want to design their own labels. Recommended label material is polyester autotex F200 and buttons to have tactile action with 10.7mm round pillow emboss.

**Label Supplier:**

*Permark Industries Aust (1999) Pty Ltd*  
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Fax : (61) 2 9819 6517  
Email : amrat@permark.com.au

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