

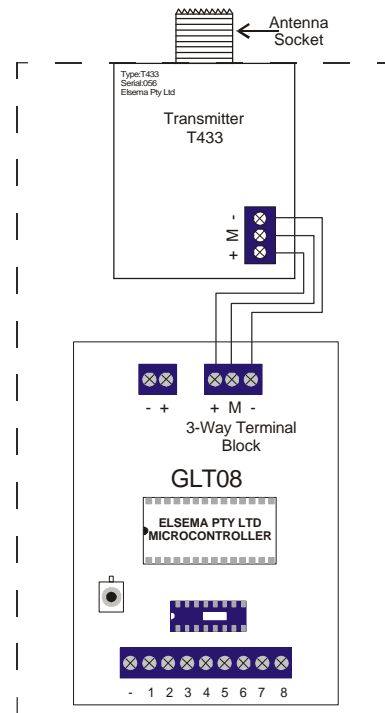
GLT08

GIGALINK™ 8-Channel Encoder for T433 Transmitter

The GLT08 is combined with the T433 data transmitter to form a 8-channel transmitter with each channel having an operating range of 1000 metres, line of sight. Connecting both units is simple. The GLT08 has a 3-way terminal block marked as + M - which should be connected directly to the T433 3-way terminal block marked as + M - . If the T433 is with a plastic case the connection is via a socket which is marked + M - . This connection is graphically shown on the right.

Each channel is addressed via the terminal block or the IC socket. The channel is activated when the corresponding channel number is shorted to ground. Each of the eight digital channel codes is stored in a microcontroller, which replaces the traditional dip switch.

The GLT08 and T433 can be purchased with Elsema's C160 weatherproof case and ANT433S UHF antenna.



Battery or DC Supply

Battery operation is optimised using the built-in battery monitoring system. The battery monitoring system alerts the user when the battery level falls below the low battery voltage. The 1 Hz flash from the LED during a transmission indicates low battery. This is an indication that replacement of a battery is necessary.

DC power supply is connected to the 2-way terminal block. Do not connect the supply to the 2.5-mm coding socket since connection may damage the microcontroller.

Channels

Eight channels are accessed using either the sixteen-pin IC socket or the terminal block.

Channel 1 is at the left and channel eight at the right side of the IC socket. Joining the opposite sides of the IC socket pin transmits the channel. The 9-way terminal block can be used to activate each channel with an external switch. This is shown graphically in the technical specifications.

Transmission Modes

The transmitter modes are user selectable by simply setting the 2-Way dip-switch on the transmitter board. Below is a summary of the modes.

MODE 1 : Dip Sw. 1 and 2 OFF : Off Delay 2 to 62 seconds.

Transmitter will transmit a 1.5-second transmission burst and then stop for the "off delay" time selected. The "off delay" time is user selectable between 2 to 62 seconds by adjusting trimpot on the GLT08. If a second channel is activated both channels will be transmitted immediately. When the "off delay" time lapses, transmitter will transmit another burst. The transmitter will cycle (transmission and off delay) indefinitely, if at least one of the channels is activated and supply is connected.

MODE 2 : Dip Sw. 1 ON and 2 OFF : Off Delay 1 to 10 minutes.

Same as mode 1 except the "off delay" is user selectable between 1 to 10 minutes.

MODE 3 : Dip Sw. 1 OFF and 2 ON : 5 minute continues transmission.

Transmitter will transmit for 5-minutes, if at least one channel is activated and supply is connected. The 5-minute limit was installed since an indefinite transmission will jam the 433.920MHz for a radius of 1000 metres.

MODE 4 : Dip Sw. 1 and 2 ON : One Burst Transmission.

Transmitter will transmit for approximately 1.5 seconds and then go to standby mode. When another channel is activated and supply is connected, transmitter will emit one new transmission burst.

TECHNICAL DATA ON GLT08

POWER SOURCE :	7.5 to 14 VDC
CURRENT CONSUMPTION :	3mA at 12VDC supply 16uA at standby
BATTERY MONITOR :	LED flashes at 1 Hz, during transmission, when battery voltage is at 6.5 volts.
OPERATING TEMPERATURE RANGE :	-5 to +50°C
PROGRAMMING MODE :	To program all eight channels use channelised code programming
DIMENSION :	96 X 70 X 15 mm
WEIGHT :	52 grams
MOUNTING :	Suitable to clip into a QM100
USEABLE RECEIVERS :	GLR433.. Series
USEABLE OPERATING RANGE :	up to 1000 metres line of sight when used with the T433

CHANNEL CONNECTION

