

# DIGITECH

## LR8819 – 4 Channel Transmitter (Hardwired Inputs)

### ❖ Technical Specifications

Description: Hardwired 4 Ch Wireless relay controller when compatible with the LR8824 receiver.

Power input: 10-15VDC

Current draw: 30mA max. (<2mA standby)

Range: 100m typical (400m with clear line of sight)

Input contacts: 1 positive and 1 negative input per channel with 4 separate channels

Transmission frequency: 433.925MHz

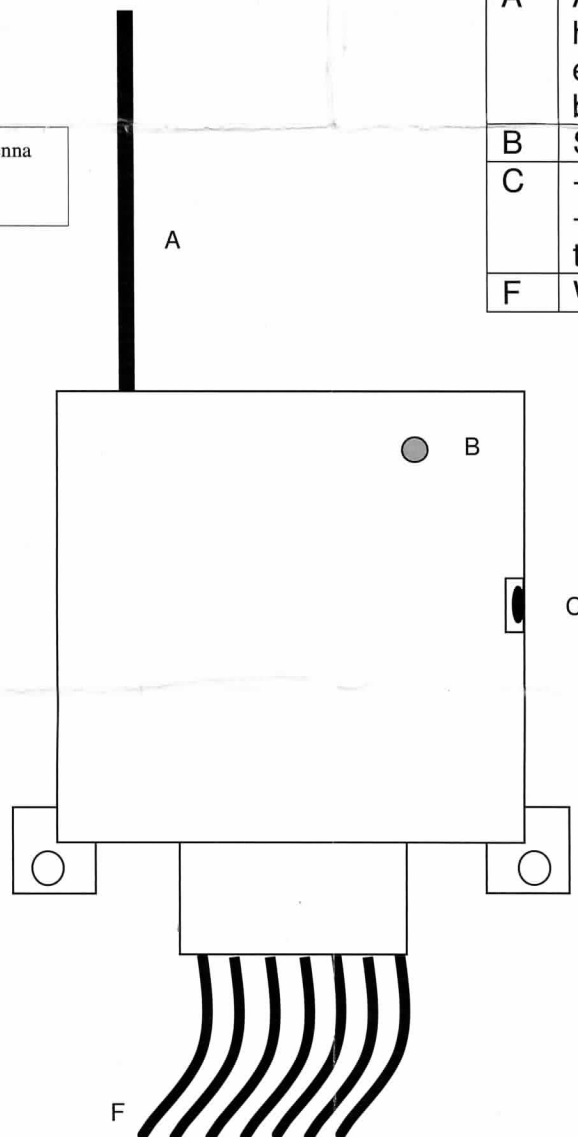
Transmitter features: SAW locked high powered transmitter for long range operation

### ❖ Diagram

#### Diagram Legend

A	Antenna, keep straight, high and vertical at both ends and line of site for best operation
B	Status LED
C	- Press for Learn - Hold 5 seconds to reset transmission code
F	Wiring Harness

Always straighten antenna vertically for best performance.



# LR8819 – 4 Channel Wireless Relay Transmitter

## ❖ Wiring Description

NO:	COLOR	FEATURE
1	BLUE - BLACK	Ch4 - Negative Input
2	BLUE	Ch4 - Common
3	BLUE - RED	Ch4 - Positive Input
4	RED	POWER
5	GREEN - BLACK	Ch2 - Negative Input
6	GREEN	Ch2 - Common
7	GREEN - RED	Ch2 - Positive Input
8	ORANGE - BLACK	Ch3 - Negative Input
9	ORANGE	Ch3 - Common
10	ORANGE - RED	Ch3 - Positive Input
11	BLACK	GROUND
12	YELLOW - BLACK	Ch1 - Negative Input
13	YELLOW	Ch1 - Common
14	YELLOW - RED	Ch1 - Positive Input

7	6	5	4	3	2	1
14	13	12	11	10	9	8

Note: The LR8819 sends status transmissions periodically which will cause the LR8824 LED to activate.

## ❖ LR8819 – 4 Channel Wireless Relay Transmitter

The LR8819 operates similar to standard remote allowing hardwired positive or negative inputs to control each of the 4 channels. The transmitter and receivers have special software to allow reliable long-range transmission. Connection is as easy as wiring the transmitter inputs up to your positive or negative contacts then the contacts on the receiver mirror that inputs state on the outputs. You can configure the receiver to activate a 1 second pulse (momentary) or latched if you want the output to copy the state of the LR8819's inputs.

The **Status LED** flashes once per second in standby and one long flash when input changes state.

To **learn** the LR8819 into the LR8824 activate learn mode on the LR8824 receiver, within a few seconds, press the learn button on the LR8819. The LR8824 can learn up to 10 LR8819's as well as the normal 250 remotes. If you have an problems reset the transmission code and relearn.

## ❖ Example Application

To turn the LR8824 receiver into a wireless relay that mirrors the inputs from this transmitter, simply program the LR8824 to latched and whenever a channel is active on the transmitter, that channel on the receiver will remain active. You can also program the receiver to momentary if you want it to pulse the output when the channel input is activated.

Note: For best reliable operation use a **linear** 12V 500mA power supply, or high quality switch mode. Keep both antennas perfectly straight and mounted vertically with line of site. Be aware that atmospheric changes do effect RF performance, this effect is multiplied when trees or objects are in the line of site path of the transmission.