

Wireless Wall Unit

Circuit description

This transmitter is used to actuate garage doors. The circuit consists of:

1. Microprocessor and control
2. Low battery detector
3. RF transmitter

The unit is usually mounted in a fixed position and is used to remotely actuate a garage door

Front panel controls:

Operation

Button #1 – This actuates transmitter for door open/door close.

Button # 2 - Light button. This transmits light on/light off to operator when the door is in STOP position

Vacation switch – Transmits active/deactivate command. In deactivation, the operator ignores signals from other transmitters. This signal is valid only when the door is fully closed.

Microprocessor (and memory)– Generates the proper encoded signals when the transmitter button is pressed. All timing is derived from a 4 MHz oscillator

Low battery detect. Low battery increments a counter. At the count of 200 the transmitter is turned off. Before the 200 count, low battery status is transmitted to operator

Power supply

Actuating any button will supply voltage to the microprocessor

RF transmitter

This circuit consists of a LC oscillator tuned to 303 MHz. The oscillator is pulse modulated from the data at the microprocessor. Different code patterns can be accessed by jumpers A,B and C.

The transmitter operates at 303 MHz.

Three AA batteries power the transmitter.