

INSTRUMENT SPECIALTIES CO., INC. – WORLD COMPLIANCE CENTER EMC MEASUREMENT/TECHNICAL REPORT			
FCC PART 15 Certification Submittal and Grant of Equipment Authorization Submittal For: Martec Access Products, Inc. FCC ID Number: KJ802-3039	<i>Document No.</i>	<i>Revision</i>	<i>Issue Date</i>
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EXHIBIT 10 – Operational Description

1 page of operating description

The KWT is a wall mounted remote transmitter that activates garage door when receiving a valid code.

Circuit Description

Referring to the block diagram.

The transmitter is normally off until the power on button is actuated.

This powers the microprocessor and starts a 20-second time-out.

Access code is put into the keypad. If the access code is valid, the transmitter is powered and transmits a coded signal. After the transmission period, the system shuts down.

Duty cycle calculations

Data at 50% duty cycle, and on for 56 milliseconds

Duty cycle = $28\text{msec}/100\text{msec} = 11 \text{ dB}$

The companion receiver is a MCR. This unit has FCC certification.

For test purposes, the transmitter is conditioned to send continuous CW. This is accomplished by shorting transistor Q5 and connecting R17 to VCC.

Average power is determined from the duty cycle calculations.

To operate transmitter, flip the front keypad cover over and remove the battery access cover located at the bottom of the unit. Connect 9V battery to terminals, close access cover and front cover. Captivate the bottom cover of the case with a rubber band to keep it from moving.