

## **1.0 TECHNICAL DESCRIPTION**

The GT-30 is a three channel rolling code visor transmitter operating at a frequency of 390 MHz. The GT-30 is intended for use in gated communities for access through gates and garage doors. The transmitter is used with both Linear's Access Control and Genie's IntelliCode\_ garage door operators. Each transmitter comes from the factory sequentially coded. This transmitter is incorporated with Microchip HCS201 code-hopping encoder which has 64 bits transmission code length. The transmitted code is different every time a button is pushed to protect against attempts to gain access to the gate or operator. Power is supplied by the two lithium type 2016 batteries provided. Battery life is estimated at 3 years under normal conditions.

The GT-30 is compatible with Linear Keeloq Rolling Code format receivers and Genie's IntelliCode\_ format receivers.

## **2.0 OPERATION**

The GT-30 is activated by any one of the three buttons of the transmitter. Upon activation, the LED turns on and the encoder provides power to oscillator Q1 that outputs a 390 MHz signal to the RF output transistor Q2. The frequency of oscillator Q1 is stabilized at 390 MHz by surface acoustic wave (SAW) resonator FR1. Data output at U1-6 modulates the base of transistor Q2 which transmits the pulse-modulated carrier via the antenna E1.

### **3.0 SPECIFICATIONS**

<b>Product Identification:</b>	<b>GT-30 transmitter (ACP00473)</b>
<b>Encoding Format:</b>	<b>Keeloq Rolling Code</b>
<b>Encoding Technique:</b>	<b>Each transmitter shall be programmed with the manufacture's ID number and a sequential transmitter ID number</b>
<b>Number of Channels:</b>	<b>Three</b>
<b>FCC Duty Cycle:</b>	<b>100 mS _ 5 _</b>
<b>RF Carrier Frequency:</b>	<b>390.00 MHz _ 125 KHz</b>
<b>Power Requirements:</b>	<b>6 volt Lithium 2016 battery (2 Lithium 2016)</b>
<b>Visual Indicator:</b>	<b>Red LED</b>
<b>Operating Temperature:</b>	<b>-20 _ C to +60 _ C</b>
<b>Size:</b>	<b>3.30" x 2.05" x 0.73"</b>
<b>Current Consumption:</b>	<b>12 mA (MAXIMUM) transmitting &lt; 1 uA standby</b>

**All specifications are nominal unless specified.**

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FCC ID: EF4 ACP00743