



GMX272 Technical Description

For GMX211/231/272 Program

The GMX272 transmitter will be used on the GMX211, GMX231 and GMX272 vehicles.

1. Frequency

The carrier centre frequency is 315MHz. The frequency tolerance is +/-75kHz.

2. Power

The power of the transmitter is measured on a standard 3m site. The range for the maximum power of the transmitter is 59dBuV to 68dBuV.

3. Bit Width

The nominal bit width is 119uS. The range of bit width is 107.1uS to 130.9uS.

4. Protocol

The modulation is Amplitude Shift Keying (ASK). It is Manchester encoding with 50% duty cycle. The baud rate is 4200 bps with a tolerance of +/-10%.

5. Temperature

There must be full transmitter operation between -40°C and +85°C. The temperature range must not cause frequency, power and bit width to exceed the limits.

6. Operation

There are three states for the transmitter – off mode, factory mode and normal mode. The transmitter goes into factory mode from off mode with a LF activation or a pressure delta. The transmitter transmits every 30 seconds in factory mode when motion is detected. After 15 transmissions the transmitter goes into normal mode. Motion is detected using a roll switch.