



EnTire Solutions, LLC
24175 Research Drive
Farmington Hills, Mi 48335

RE: Certification for EnTire Solutions, LLC TPM MY05 Highline Receiver

Model #: 218695-101
FCC ID: T7B-3R
Canada IC: 6484A-3R

GENERAL DESCRIPTION

The TPM Highline receiver is used to demodulate and decode RF transmissions from the TPM wheel sensors. The transmissions contain information on the pressure and temperature of each of the vehicle's tires, which is used to signal low inflation warnings to the driver. The signaling is done via dashboard lamps which indicate a low inflation state and the position of the under-inflated tire. The receiver also monitors the performance of the components in the TPM system and will signal a fault to the driver if the performance of the system is compromised.

The receiver is connected to initiators located in each of the vehicle wheel wells. The initiator converts a waveform from the receiver to a low frequency (LF) magnetic field which is used to communicate with the TPM sensor. The waveform frequency is typically 125KHz but can be varied in steps up to 180KHz. The waveforms are encoded with information to change the operating state of the TPM sensor or request that the sensor transmits data.

The receiver interrogates the sensors in each vehicle position via LF to learn which sensors are currently fitted to the vehicle.