

January 22, 2013

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RE: Certification for HKMC MY2013 315MHz MD/UB/UD TPM Sensor  
Model #: 225816-123  
FCC ID: GQ4-60T  
Canada IC: 1470A-41T

**GENERAL DESCRIPTION**

This device is a transmitter/sensor with tire valve, which is mounted in the valve hole of the rim and measures the pressure inside the tire, as well as if the vehicle is in motion. These measurements are then transmitted over Radio Frequency (RF) to a receiver also located in the vehicle. The device also has a Low Frequency (LF) receiver. This receiver supports Low Frequency (LF) magnetic field communications allowing the changing of measurement/monitoring states of the transmitter by commands sent via the TPM diagnostic tool. The RF signal operates at 315MHz and uses FSK Manchester code modulation.

**Description of Operations**

<b>Mode of Operation</b>	<b>Explanation</b>	<b>Frequency of Transmission</b>
Storage Mode	No transmission. Measures temperature & pressure	4 words when activation occurs with TPM diagnostic tool
Normal Mode	Measures temperature and pressure. Transmits periodically. Enters this mode from storage when pressure goes above threshold.	<ul style="list-style-type: none"><li>• 4 words every 200 seconds</li><li>• 4 words when activation occurs with TPM diagnostic tool</li></ul>
Alert Mode	Transmits when: a) significant pressure delta detected b) high temperature is detected	8 words every 4 seconds for 1 minute