

March 3, 2009

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RE: Certification for HKMC MY10 FSK 315MHz Low Line Transmitter
Model #: 220644112
FCC ID: GQ4-42T
Canada IC: 1470A-23T

GENERAL DESCRIPTION

This transmitter is a transmitter device with tire valve, which is mounted in the valve hole of the wheel rim and transmits the pressure and temperature inside the tire, the battery voltage of the transmitter, and the tire identification code (ID) at normal and abnormal condition with the radio wave (RF) that conforms to the used area. Also this device has a countermeasure function such as the random delay of transmission time so that the RF signal from each tire will not interfere due to the simultaneous transmission. The transmitter 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

Mode of Operation	Explanation	Frequency of Transmission
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">• 4 words every 210 seconds• 4 words when activation occurs with TPM diagnostic tool
Alert Mode	Transmits when: a) significant pressure delta detected b) high temperature is detected	8 words every 4 seconds for 1 minute