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RE: Certification for AFM Honda/HKMC 315MHz ASK HL/BL TPM Sensor

218898-105 (High Line Short Valve Stem) Model #:

218898-106 (High Line Long Valve Stem)

218898-107 (Base Line Short Valve Stem)

FCC ID: GO4-69T Canada IC: 1470A-50T

## 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 such as 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 wheel-arch mounted TPMS Initiator (LF transmitter). The RF signal operates at 315MHz and uses ASK bi-phase modulation. The 218898-107 utilizes the accelerometer feature of the asic. There are no differences in components or function.

## **Description of Operations**

P/N	Consumer	Mfg.	Mode of	Explanation	Frequency of
	's Use	Mode	Operation		Transmission
	Mode	S			
-105, -106,	X		Storage	No transmission. Measures	4words
			Mode	temperature and pressure.	whenever LF
					activation occurs
-107	X		Storage	No transmission. Measures	4words
			Mode	temperature, pressure, and	whenever LF
				acceleration.	activation occurs
-105, -106	X		Normal	Measures temperature and pressure.	4 words every 1
			Mode	Transmits periodically. Enters this	minute, 4 words
				mode from storage with LF	LF activation
				command.	occurs
-107	X		Normal	Measures temperature, pressure and	4 words every 1
			Mode	acceleration. Transmits periodically.	minute, 4 words
				Enters this mode from storage when	LF activation
				acceleration goes above threshold.	occurs
-105, -106, -	X		Alert	Transmits when:	8 words every 4
107			Mode	a) significant pressure delta detected	seconds for 1
				b) high temperature is detected	minute
-105, -106, -		X	Mfg.	Used to test soldering on LF coils.	4 words
107			Mode		whenever LF
					activation occurs