2. Technical description of the system

2.1 Type number PMV-1001

2.2 Specifications

-Nominal Frequency
:314.98MHz obtained by SAW resonator

-Type of Modulation
:F2D

-Modulation Frequency
: 40kHz

-Radio Frequency output
:67.6dBuV/m or less

-Power Supply

-Nominal Supply Voltage	3V DC
-Type of Battery	One lithium battery (built-in battery)

-Antenna Built-in type

3. Outline of the system

3.1 Description of the system operation

This system is used for monitoring and indicating about information of air pressure and temperature in vehicle's tires.
This transmitter sends to receiver the data that are information of air pressure and temperature in vehicle's tires.
The data also include battery voltage and identity code of transmitter.
The receiver judges if the data of air pressure and temperature from transmitter are not normal conditions. And then the receiver sends communication signals to a warning lamp through gateway ECU which is an intermediate ECU to divide signals . The warning lamp warns drivers.

3.2 Installation in vehicle.

The transmitter is installed on tire wheel rim.(see Fig 3.2 Transmitter of installation)

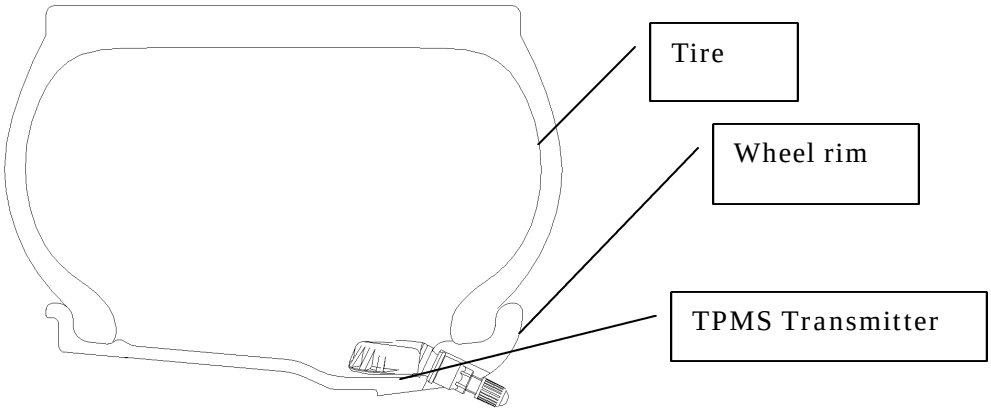

Fig 3.2 Transmitter of installation

4. Explanation of transmitting

Basically this transmitter sends the signals as the following table.

table 4. Explanation of transmitting

	Typical transmission interval	Minimum number of transmission
Normal	617s	
Pressure alert	14.7s	
Slow puncture alert	14.7s	
High temperature alert	14.7s	16

Note; The time of 1 transmitting frame is about 300ms.