



AVE Tire Pressure Monitoring System (TPMS)

Advantages of AVE TPMS

Display/Receiver

AVE is THE TPMS LEADER company in Taiwan

AVE is THE Number ONE and ONLY ONE OE TPMS supplier in Taiwan now
(car mass production on line installing for Car maker)

AVE TPMS is the most High-Class wireless TPMS in the world(High Quality, Designed and Made in Taiwan)

-Large **LCD Display** and **Circuit bar** for viewing the better data. **Color LCD** is difference between the condition of normal(**Green**) and warning(**Red**) (Patent protected).

-Changeable Uint: **kPa/bar/psi (pressure unit)** and **°C/°F (temperature unit)**



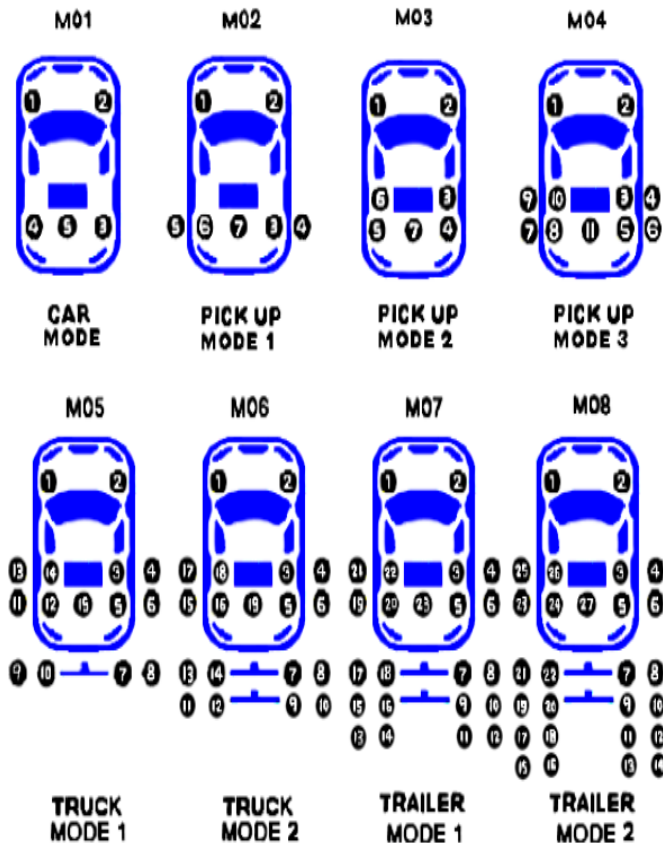


Multi-Function

- Pressure
- Temperature
- Sensor's battery
- Sensor's signal strength
- Vehicle's Battery
- Number of flexible tire (Patent protected)
- Programmable tire to fit any type of vehicle
- Programmable tire up to 27 tires
- Can monitor spare tire



PRESSURE SETUP MODE (for TRUCK version)





Sensor/Transmitter

Operating Temperature

- Operating temperature of AVE Sensor : **Real -40°C ~ 125°C** for car Specs
- **RF circuit's** components of AVE Sensor all meet **-40°C ~ 125°C** (Patent protected)
- **Battery** of AVE Sensor is the same as TPMS of Benz and BMW (**-40°C ~ 125°C**)

Almost all other suppliers of TPMS **NOT** Meet the requirement of temperature

- use RF IC with **Crystal** (Highest operating temperature **70~85°C**)
- Some other TPMS use Consumer battery (Highest operating Temperature **70~80°C**)
- **Not Work** when High Temperature and Low Temperature!!!

Sensor Chip

- TPMS of OE Car is common to used GE or Infineon's sensor
- AVE TPMS all use the GE/Infineon's sensor

Valve Stem

- The valve stem of AVE valve is **Standard metal valve** and the valve is available anywhere (Patent protected)
- Other TPMS use customize valve, It is very difficult to buy when valve is broken. If you not replace valve. Car can not drive except you take apart the sensor.
- Other embedded type of sensor will be discarded when the valve is broken

2 Way (Bi-direction)

- Optional **LF** (Remote control) can be used to learn sensor's ID when change the position of tire. It is very useful for install center.

AVE TPMS use the **Best Quality Components**. Total component Cost over other TPMS **55 USD**

Component compare	• AVE TPMS	• Other TPMS	• Cost difference
Display	• Color LCD:5 USD	• LED: 0.5 USD	• 4.5 USD
Display CPU	• Microchip: 5 USD	• XXX: 1 USD	• 4 USD
Sensor Chip	• GE/Infineon: 4.5 USD	• No Brand:0.3 USD	• 4.2 x 4 =16.8 USD
Battery	• Israel/Japan: 3.5 USD	• XXX:0.15 USD	• 3.35 x 4=13.4 USD
LF antenna	• 0.5 USD	• None: 0 USD	• 0.5 x 4 = 2 USD
RF Circuit (Tx)	• FSK : 2USD	• ASK:0.3 USD	• 1.7 x 4 = 6.8 USD
RF Circuit (Rx)	• FSK : 5USD	• ASK:2 USD	• 3 USD
Antenna (Rx)	• SMA: 2.5 USD	• Wir: 0.1 USD	• 2.4 USD
Standard valve	• Metal : 1.5 USD	• 0.5 USD	• 1 x 4 = 4 USD
Total	•	•	• 56.9 USD



Specification (AVE TPMS)

The specifications of Sensor and transmitter

- Battery voltage 3.6 V/ 3V
- Temperature of storage -55°C ~ 125°C
- Operating Temperature -40°C ~ 125°C
- Resolution of temperature $\pm 3^{\circ}\text{C}$
- Range of pressure 450kPa/700kPa/1400kPa
- Operating Humidity 100%
- Operating Frequency 433.92 MHz

The specification of Receiver

- Operating Voltage 9V ~ 18V
- Operating Temperature -40°C ~ 85°C
- Temperature of monitor -40°C ~ 125°C

The price of AVE TPMS

- Very competition with High Quality and Lower price

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