



## Tire Pressure Monitoring System (TPMS) Components and Configurations

### 1. Major Components

#### 1.1 Transmitter



**TPM-P2, TTM-P2:**  
"Flow-Thru" External Valve Stem mounted  
Transmitter for RV



**TPM-V1, TTM-V1:**  
Internal Valve Mounted Transmitter for Car  
and Light Truck

Notes: **TTM** transmitter is for towed vehicle.

#### 1.2 Monitor Set – Receiver, Transceiver, and Display



**TPM-MONITOR:** RV Monitor with Receiver and Display, which shows RV for the RV only model, otherwise shows RV and towed car on different screens of the display.

**TTM-MONITOR:** Towed Car Monitor with Transceiver and Display, which only shows towed car.

**TTM-TXRCVER:** Towed Vehicle Transceiver (not include display unit)



Note: Transceiver receives the towed vehicle tire signals and retransmits it to the receiver in the driver cab, thereby allowing long range monitoring.

## 1.3 Antenna



**RH-QW-ANT:** Reduced-height 1/4 wave antenna



**CABLED-ANT:** Cabled antenna

## 2. TPMS Configuration

### 2.1 Motorhome and Commercial Truck



#### Two configurations:

- 1) 1 **TPM-MONITOR** + 1 **RH-QW-ANT** + 6 **TPM-P2**
  - Monitors RV or truck tires from the driver seat.
  - Models** (RV or truck uses external transmitters):
    - 6-tire RV or truck: TPM-P206
- 2) 1 **TPM-MONITOR** + 2 **RH-QW-ANT** + 8 / 10 **TPM-P2**
  - Monitors RV or truck tires from the driver seat.
  - Models** (RV or tractor uses external transmitters):
    - 8-tire RV: TPM-P208
    - 10-tire tractor: TPM-P210

**Note: For certain wheels solid or flexible valve extenders might be needed.**

## 2.2 Motorhome with Towed Car



### Three configurations:

- 1) 1 **TPM-MONITOR** + 1 **RH-QW-ANT** + 1 **CABLED-ANT** + 6 / 8 **TPM-P2** + 4 **TTM-V1**  
- **Monitors both RV and towed car tires**; RV monitor uses cabled antenna at rear to pick up towed car tire transmitter signals. No display in car.  
**Models** (RV uses external transmitters, car uses internal transmitters):
  - 6-tire RV + towed car: **TTPM-10P6V4C**
  - 8-tire RV + towed car: **TTPM-12P8V4C****Note:** cabled antenna may not work for all installations; a transceiver in car might be needed.
  
- 2) For Motorhome: 1 **TPM-MONITOR** + 2 **RH-QW-ANT** + 6 / 8 **TPM-P2**  
For Towed Car : 1 **TTM-MONITOR** + 1 **RH-QW-ANT** + 1 **CABLED-ANT** + 4 **TTM-V1**  
- **Monitors both RV and towed car tires**. Towed car has its own monitor with display, and uses transceiver for sending tire signals to the RV monitor.  
**Models** (RV uses external transmitters, car uses internal transmitters):
  - 6-tire RV + towed car: **TTPM-10P6V4D**
  - 8-tire RV + towed car: **TTPM-12P8V4D**
  
- 3) 1 **TPM-MONITOR** + 1 **RH-QW-ANT** + 1 **CABLED-ANT** + 4 **TTM-V1**  
- **Monitors towed car tires only**, no RV tire monitoring - can be added later.  
- RV uses cabled antenna at rear to pick up towed car transmitter signals.  
**Model** (RV has no transmitters, car uses internal transmitters):
  - 6/8-tire RV + towed car: **TTPM-400V4C****Note:** cabled antenna may not work for all installations; a transceiver in car might be needed.

### 2.3 Four-Tire Truck and Trailer / 5<sup>th</sup> Wheel



#### Three configurations:

- 1) 1 **TPM-MONITOR** + 1 **RH-QW-ANT** + 1 **CABLED-ANT** + 4 **TPM-V1** + 2 / 4 **TTM-V1**  
- **Monitors both truck and trailer tires**; truck uses cabled antenna at rear to pick up trailer signals.

**Model** (Both truck and trailer use internal valve mounted transmitters):

- 4-tire truck + 2-tire trailer: **TTPM-6V4V2C**
- 4-tire truck + 4-tire trailer: **TTPM-8V4V4C**

Note: cabled antenna may not work for all installations; a transceiver in trailer might be needed.

- 2) 1 **TPM-MONITOR** + 1 **RH-QW-ANT** + 1 **CABLED-ANT** + 2 / 4 **TTM-V1**  
- **Monitors trailer tires only**, no monitoring truck tires – can be added later. Truck uses cabled antenna at rear to pick up trailer signals.

**Model** (Truck has no transmitters, trailer uses internal valve mounted transmitters):

- Truck + 2-tire trailer: **TTPM-200V2C**
- Truck + 4-tire trailer: **TTPM-400V4C**

Note: cabled antenna may not work for all installations; a transceiver in trailer might be needed.

- 3) For Truck: 1 **TPM-MONITOR** + 2 **RH-QW-ANT** + 4 **TPM-V1**  
For Trailer: 1 **TTM-TXRCVER** + 2 **CABLED-ANT** + 2 / 4 **TTM-V1**  
- **Monitors both truck and trailer**; trailer uses transceiver with cabled antennas for sending tire signals to truck monitor.

**Model** (Both truck and trailer use internal valve mounted transmitters):

- 4-tire truck + 2-tire trailer: **TTPM-6V4V2T**
- 4-tire truck + 4-tire trailer: **TTPM-8V4V4T**

### 2.4 Six-Tire (Non-commercial) Truck and Trailer / 5<sup>th</sup> Wheel

Valve mounted sensors are not suitable to be used on 6-tire trucks, instead use the internal rim-mounted transmitters **TPM-W2** and **TTM-W2** described in the Appendix. Follow the Four-Tire Truck and Trailer configurations but use the following model numbers:

**Models** (Truck uses rim mounted transmitters, trailer uses valve mounted transmitters):

- 6-tire truck + 2-tire trailer with cabled antenna: **TTPM-8W6V2C**
- 6-tire truck + 2-tire trailer with transceiver: **TTPM-8W6V2T**
- 6-tire truck + 4-tire trailer with cabled antenna: **TTPM-10W6V4C**
- 6-tire truck + 4-tire trailer with transceiver: **TTPM-10W6V4T**

## 2.5 Commercial Tractor-Trailer



### Four configurations:

- 1) 1 **TPM-MONITOR** + 1 **RH-QW-ANT** + 1 **CABLED-ANT** + 6 / 10 **TPM-P2** + 8 **TTM-P2**  
- **Monitors both tractor and trailer tires**; tractor uses cabled antenna to pick up trailer signals.

**Models** (Both tractor and trailer use external transmitters):

- **6-tire tractor + 8-tire trailer: TTPM-14P6P8C**
- **10-tire tractor + 8-tire trailer: TTPM-18P10P8C**

Note: cabled antenna may not work for all installations; a transceiver in trailer might be needed.

- 2) 1 **TPM-MONITOR** + 1 **RH-QW-ANT** + 1 **CABLED-ANT** + 8 **TTM-P2**  
- **Monitors trailer tires only**, from tractor; no monitoring tractor tires - can be added later.

**Model** (Tractor has no transmitters, trailer uses external transmitters):

- **6/10-tire tractor + 8-tire trailer: TTPM-800P8C**

Note: cabled antenna may not work for all installations; a transceiver in trailer might be needed.

- 3) 1 **TPM-MONITOR** + 2 **RH-QW-ANT** + 6 / 10 **TPM-P2**  
- **Monitors tractor tires only**; no monitoring trailer tires - can be added later.

**Models** (Tractor uses external transmitters, no trailer transmitters):

- **6-tire tractor: TPM-P206**
- **10-tire tractor: TPM-P210**

- 4) For Tractor: 1 **TPM-MONITOR** + 2 **RH-QW-ANT** + 6 / 10 **TPM-P2**  
For Trailer: 1 **TTM-TXRCVER** + 2 **CABLED-ANT** + 8 **TTM-P2** + **SEALED-BOX**  
- **Monitors both tractor and trailer tires**; Trailer uses transceiver with cabled antennas for sending tire signals to tractor monitor. Transceiver is installed in sealed box for protection.

**Models** (Both tractor and trailer use external transmitters):

- **6-tire tractor + 8-tire trailer: TTPM-14P6P8B**
- **10-tire tractor + 8-tire trailer: TTPM-18P10P8B**

Note: For certain wheels solid or flexible valve extenders might be needed.

## Appendix: Internal Rim-Mounted TPMS

### TPM-W2, TTM-W2:

Internal rim-mounted transmitter, installed on wheel with a stainless steel band. This transmitter can be used to replace the valve sensors described earlier. Model **TTM-W2** is for towed vehicles.

Size: 2 9/16" x 1 1/4" x 5/8"



### Antenna Configuration:

- 1) Using the **W2** transmitters on passenger cars, travel trailers and non-commercial trucks can follow the similar antenna arrangement as using the valve transmitters.
- 2) Using the **W2** transmitters on motor home and commercial trucks must use the **RH-QW-ANT** plus cabled antenna arrangement for ensuring good signal reception for the rear tires.
- 3) Using the **W2** transmitters on tractor-trailers must use the **RH-QW-ANT** plus cabled antenna on the tractor, and use the **TTM-TXRCVER** + **SEALED-BOX** + cabled antennas on the trailer.



### SEALED-BOX:

