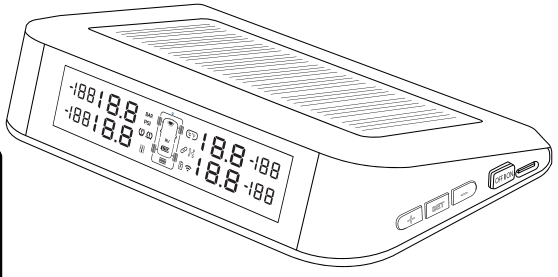
TUFF TERRAIN
4 x 4 ACCESSORIES

WIRELESS TYRE PRESSURE MONITORING SYSTEM

INSTALLATION MANUAL

Thank you for purchasing a Tyre Pressure Monitoring System (TPMS). With minimal care, your new TPMS will provide reliable service for many years. Please read and understand the information contained within this manual. Keep this manual for future reference.



WARNING: CONTAINS BUTTON OR COIN CELL BATTERIES. HAZARDOUS IF SWALLOWED.

If it is suspected a button/coin cell battery has been swallowed or ingested, seek medical attention immediately, and contact the Australian Poisons Information Centre on 13 11 26 for expert advice.

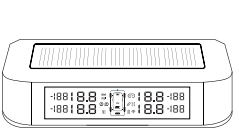
DISPLAY PARAMETERS

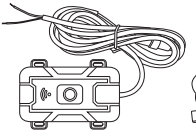
Operating Temperature	-20°C~80°C
Storage Temperature	-30°C~85°C
Output Voltage / Current	DC 5V
Frequency	433.92 MHz
Monitoring Dimensions	80(L)*75(W)*29.5(H)mm
Sensor Weight	117g

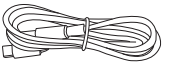
TPMS SENSOR SPECIFICATIONS

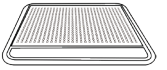
Operating Temperature	-40 ~ 120°C
Storage Temperature	-40 ~ 120°C
Pressure Range	0 ~ 13.5 BAR, 0~200PSI
Pressure Accuracy	±0.1BAR, ±1.5PSI
Temperature Accuracy	±2°C
Transmission Power	10dBm
Transmission Frequency	433.92MHz
Battery Life	2 years (CR1632,-40 ~120°C)
Weight	25g
Waterproof Rating	IP67
Dimensions (Diameter × Height)	21mm*26.5mm
Replaceable Battery	Yes

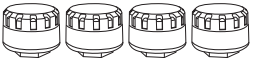
SYSTEM COMPONENTS IN KIT


Monitor


Range Booster


USB Cable


Anti-slip Mat

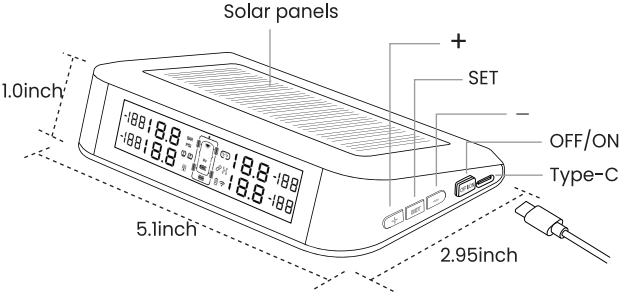

Sensors


Anti Theft Nut


Locking Spanner

DISPLAY CONTROLS

icon	Describe
	Tyre Position
	Sensor Low Battery
	Monitor Power Level
	Tyre Alarm Status
	Solar Indicator
	Booster Indicator



PRODUCT SETTINGS

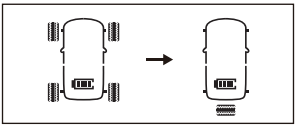
Changing Units

In standby mode, press and hold the "+" button for 3 seconds to switch between PSI and BAR pressure units.

In standby mode, press and hold the "−" button for 3 seconds to switch between Fahrenheit (°F) and Celsius (°C) temperature units.

Switching Display to View Vehicle Spare Tire / Trailer Spare Tire

In standby mode, press the "+" or "−" button to scroll to the spare tire status.



Automatic Baseline Pressure Setting

Turn on the monitor and install the wheel sensors onto cold tires. This will set the baseline pressure.
If the tire pressure increases by 25% or decreases by 15% from the baseline, the monitor will trigger a visual and audible alarm.

RV Disconnect Function

Press and hold the "−" button for 6 seconds, then release it after the second beep.

RV Connect Function

Press and hold the "+" button for 6 seconds, then release it after the second beep.

MANUAL CODING

TPMS Sensor Pairing

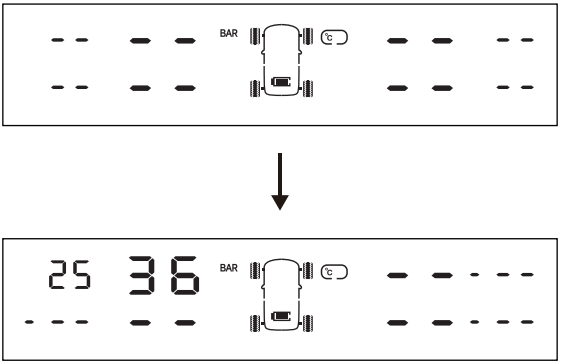
If you need to replace a sensor or change the pre-paired sensor positions, please follow these simple steps:

1. Press and hold the “Settings” and “+” buttons for 3 seconds until you hear a beep, entering sensor pairing mode. It will start blinking from the vehicle’s front passenger-side tire.

2. Press the “+” button to scroll to the wheel position where the new sensor needs to be programmed. Then, screw the sensor onto the tire valve stem and wait for a beep (up to 20 seconds).

3. After hearing the beep, press and hold the “Settings” button until you hear another beep. This saves the new data and returns the monitor to standby mode.

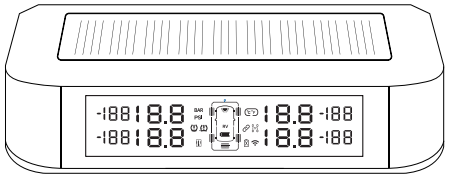
4. Repeat this process for any other sensors after successfully pairing the front passenger tire.



DISPLAY INSTALLATION

- The display is recommended to be placed above the instrument panel. Place anti slip mat down in desired position and monitor unit on top.
- Plug the TYPE-C power cord into the 5V/1A port to charge the intemal lithium battery. Do not use PD port or other fast charging ports to charge. Exceeding 5V will damage the display.
- The function of the solar panel is to prolong the working time of the display. If the monitor is below 1 bar of battery life please charge the display.

Note: The display provide effective real-time monitoring. Any abnormalities of the tyre will sound and flash a prompt in an instant.



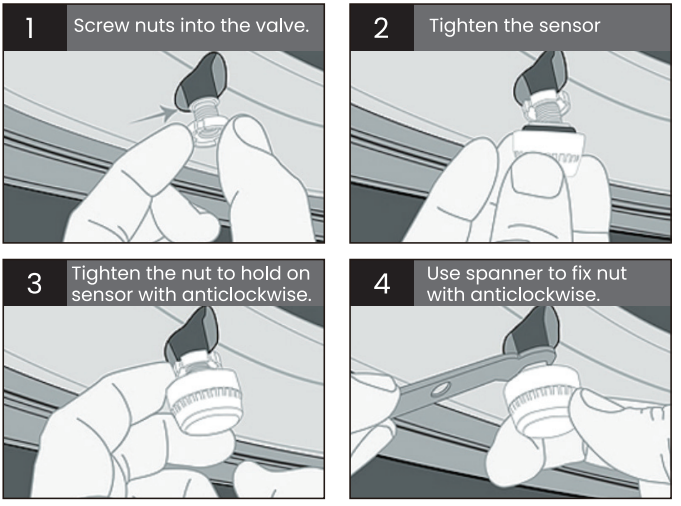
SENSOR INSTALLATION - CAP SENSOR

1. Screw the hex nut onto the valve stem threads until it bottoms out.

2. Screw on and tighten the sensor until the air stops leaking and the sensor bottoms-outon the valve stem. Then give it a quarter turn more to seat it. DO NOT OVER TIGHTEN!

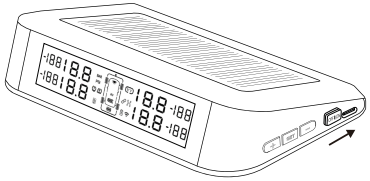
3. Use your fingers to screw the hex nut up to the bottom of the sensor. Using the provided wrench, tighten the hex nut against the bottom of the sensor.This will prevent the sensor from being removed and or coming undone. Keep the wrench in a safeplace for future use, like your glove box.

4. The function of the solar panel is to prolong the working time of the display. If the monitor is below 1 units please charge the display via USB.

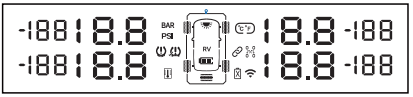


RESTORE FACTORY SETTINGS

Turn off the monitor. Then turn it back on and press and hold the "Settings" button within 3 seconds. Release the button after hearing the beep.



Powering On the Monitor via Rocker Switch



When this screen appears, press and hold the "SET" button. Release it after hearing the beep to complete the factory reset.

OUT OF PARAMETER ALERT

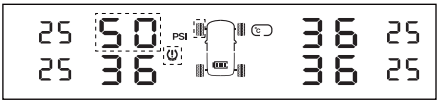
The sensors send the tyre pressure and temperature readings to the display every three (3) minutes. If a tyre is outside the preset parameters, an audible alarm will sound aswell as the location of the fault will flash on the display.

The audible alarm can be silenced for a short while by pressing any of the buttons on the display. The tyre in question will continue to flash until the pressure or temperature issue is resolved and brought back into your preset parameters.

Pressure Alert

When the tyre pressure exceeds the baseline value by 25%

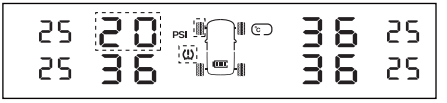
1. 50 & Tire is flashing.
2. The tyre pressure is too high.
3. Deflate the tire to the normal pressure.



Low-Pressure Alert

When the tyre pressure drops 15% below the baseline value

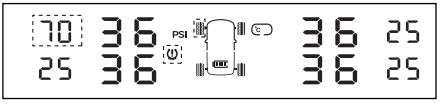
1. 20 & Tyre is flashing.
2. The tyre pressure is too low.
3. Inflate the tyre to the normal pressure.



High-Temperature Alert

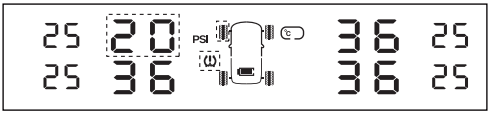
Example: High temperature threshold is 70°C

1. 70°C & tyre is flashing.
2. The tire temperature is too high.
3. Pull over to a safe location and assess the cause of the high-temperature alert. if your tire pressure is low, this could be the cause.



Fast Leak Alert

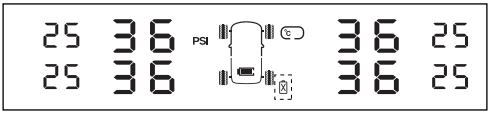
When a fast tyre leak is detected (loss of 2 psi or more in less than one minute) the sensor will send that data immediately to the display, the audible alarm will sound and the affected tyres pressure will flash. The affected tyre, pressure for that tyre will also flash. The audible alarm can be silenced for a short while by pressing any of the buttons on the front of the display. The screen will continue to flash until the pressure or temperature issue is resolved and brought back into your preset parameters.



Sensor Low Battery Alert

The sensor low battery indicator will display when the sensor battery is low. The affected tyre will flash LO. Replace with a new battery as soon as possible.

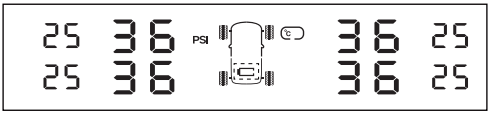
Note: This low battery alert will display for only a short time until the battery is exhausted. If you do not have the display on often, the indicator signal will be sent but not show on the display, since it was off. if your sensor is not reporting to the display, check the battery voltage. if it is below 2.95 volts (normally 3+ volts), you will have to change the sensor battery.



Display Low Battery Alert

The low battery indicator will display when the display battery is low. Recharge with a 5V charger as soon as possible.

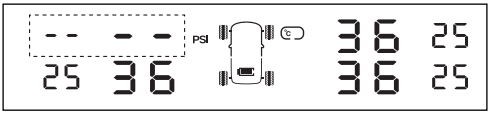
Do not use a PD port or other fast charging ports to charge. Exceeding 5V will damage the charging IC chip.



Sensor Lose Alert

When the display is not receiving sensor data, the tyre that's affected will show "- - " .

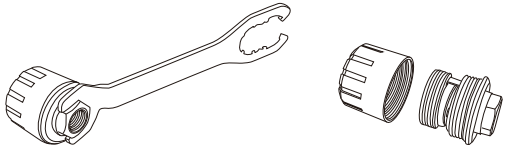
To resolve this issue, you should check for possible causes like signal interference, battery dead or broken sensors. If you need further assistance, please refer to the help section to resume use.



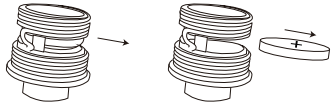
SENSOR BATTERY REPLACEMENT

When the sensor low battery icon " " appears on the monitor and the corresponding tyre icon flashes, the sensor battery needs to be replaced. Use a CR1632 lithium battery for replacement.

1. Secure the sensor inside the sensor activation tool and open the sensor cover.



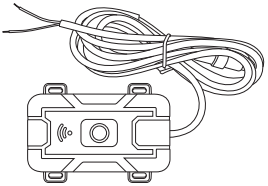
2. Remove the old battery.



3. Replace with a CR1632 lithium battery, making sure the positive "+" side is facing up.

REPEATER

The repeater is used to strengthen/amplify the sensor signal to the display.
Repeater is sold separately.
The repeater is wired to a 12V source
that will be constant while driving.
The repeater comes with two wires,
one white (+) and one black (-).
Simply connect the white wire to a positive source
and the black wire to a ground or negative source.
The repeater is weather resistant.
No additional setup is needed for the repeater.



Motorhome Installation

We recommend installing the repeater in one of the rear basement compartments where there is a 12v power source. Mount the unit inside the hatch but against the outer wall. Do not put the repeater in the engine compartment because of excessive heat. Avoid concealing repeater in area surrounded by metal as this may effect the repeaters ability to function properly.

5th Wheel Installation

We recommend installing the repeater in or near the battery compartment under the front overhang. Mount it with hook & loop or two-sided tape to the inner, exterior wall. An alternate mounting place is on the top of the pin-box. Use industrial two-sided tape and mount the repeater on the upper slope of the pin-box. Connect the positive lead to the break-away switch (which has 12v power while driving). Ground the negative lead to complete the circuit.

Camper Trailer Installation

We recommend installing the repeater in the battery box on the front of the trailer. If the battery box is metal, connect the lines to the battery, then run the lines outside of the box and mount on the side of the battery box or the front tongue of the camper trailer.

Note: The red light on the repeater will illuminate "constant or blinking" (the repeater will illuminate with a constant light when power is applied, once the display is on and the sensors are reporting. The light will blink occasionally when transmitting information to the display). if the light is not on, check your connections, source power or the in-line fuse on the positive lead of the repeater for issues.