

iCheck TPMS



TYRE PRESSURE MONITORING SYSTEM



Instruction Manual

Model IC005 / IC008 / IC010

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1. PRODUCT INFORMATION

1-1. Product Feature

Thank you for choosing iCheckTPMS. The system is used to monitor the pressure and temperature data of each tyre on your 4WD and or caravan. The system gives visual and audible alerts if any given tyre drops below, or exceeds, the preset threshold. The user can also 'adjust' the alarming status for both pressure and temperature alerts.

1-2. Caution

It is highly recommended to read the instructions below before installing the system:

1. Driver should always operate a vehicle in a safe manner. Minimising the amount of time spent viewing the display will prevent distraction.
2. When installing on the dash, ensure the device is placed securely to ensure that it does not obstruct the driver's view of the road.
3. Do not place in any way that may hinder the vehicles operating controls.
4. Do not place in a location that will obstruct airbags.

1-3. Installation Tips

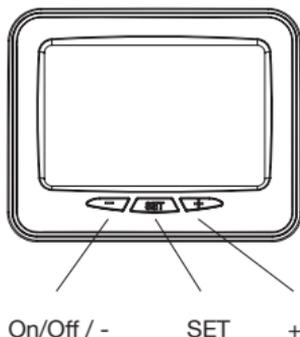
1. The monitor will go into sleep mode to save battery after 10 minutes of no movement. It will turn on again automatically when it detects the vehicle is moving again. If any sensor data has not been displayed on the monitor at the beginning, it will show the real time tyre data automatically when the speed is over 25km/h.
2. Due to air expansion and contraction, tyre pressures and temperatures will change whilst driving.
3. All sensors in this unit have been pre-set individually for each tyre in the factory. Whenever the location of a tyre is changed it is necessary to put the numbered sensor back to its original position as per the factory default wheel sensor location.

2. MONITOR FEATURE

- Automatic solar power recharging.
- Pressure and temperature alarm.
- Visual and audible alarm.
- Selectable pressure unit (PSI, BAR).
- Selectable temperature unit (°C, °F).
- Configurable high/low pressure and high temperature alarm.
- Automatic awake feature.
- Automatic backlight.
- Built in rechargeable lithium battery.
- Monitor up to 10 tyres (including spare tyres).
- Display temperature and pressure simultaneously.

3. PRODUCT ACCESSORIES

Monitor Components and Icons



Pressure Unit: BAR or PSI, user selectable
 Temperature Unit: °C or °F, user selectable

Solar Panel

Power Socket



Icon	Indication
	Tyre Position
	Sensor Low Battery
	Monitor Power level
	Tyre Alarm Status
	Solar Power Indicator
	Caravan / Trailer



LCD Monitor



Non Slip Pad

USB Cig.
AdapterUSB Power
Cable

Wheel Sensor

Sensor
Opening ToolLock Nut
Spanner

Lock Nut



Rubber O Ring

Rubber Dust
Cover

4. PARAMETERS SETTINGS

Initial Start Up

Before installing the wheel sensors firstly turn on the monitor by long pressing the ‘-’ button until monitor turns on and a beep is heard. Now install the sensors to their corresponding locations.

Initial Set Up

In standby mode, press the ‘set’ button and release after the first beep to enter the first set up menu. The corresponding icon on the LCD will flash. Press the ‘set’ button to select the desired setting, press the ‘+’ or ‘-’ to select the desired data. After the setting is finished, long press the ‘set’ button to save the setting and exit after a beep. Press the button ‘set’ and ‘+’ at the same time to exit without saving the setting. The monitor will return to standby mode if there is no operation within 1 minute in the setting mode.

4-1. Factory Default Alarm Alert Status

Pressure Unit:	PSI /BAR
On Road High Pressure:	44PSI (3.0BAR)
On Road Low Pressure:	29PSI (2.0BAR)
Off Road High Pressure:	25PSI (1.7BAR)
Off Road Low Pressure:	15PSI (1.0BAR)
High Temperature:	70°C/158°F

To restore the factory default setting:

First turn off the monitor by long pressing ‘-’, then turn on the monitor again until all icons are displayed and then press the ‘set’ button within 3 seconds, release after a ‘Bi’ sound and the monitor will go back into standby mode.

4-2. Setting Sequence

1. Pressure Unit

While the PSI or BAR icon is flashing, press the '+' or '-' button to select the desired unit.



2. Temperature Unit

While the °C or °F icon is flashing, press the '+' or '-' button to select the desired unit.



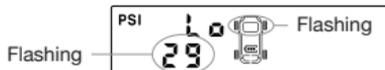
3. High Pressure Setting for Front Tyres

While the two front tyre icons and the high pressure data icons are flashing, press the '+' or '-' button to select the desired pressure data.



4. Low Pressure Setting for Front Tyres

While the two front tyre icons and the low pressure data icons are flashing, press the '+' or '-' button to select the desired pressure data.



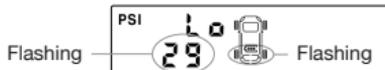
5. High Pressure Setting for Rear Tyres

While the two rear tyre icons and the high pressure data icons are flashing, press the '+' or '-' button to select the desired pressure data.



6. Low Pressure Setting for Rear Tyres

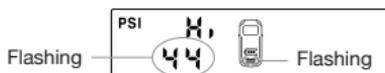
While the two rear tyre icons and the low pressure data icons are flashing, press the '+' or '-' button to select the desired pressure data.





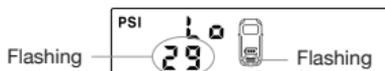
7. High Pressure Setting for Spare Tyre

While the spare tyre and the high pressure data icons are flashing, press the '+' or '-' button to select the desired pressure data.



8. Low Pressure Setting for Spare Tyre

While the spare tyre and the low pressure data icons are flashing, press the '+' or '-' button to select the desired pressure data.



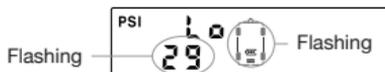
9. High Pressure Setting for Caravan

While the high pressure data and two or four tyre (single/dual axle) icons are flashing, press the button '+' or '-' to set the desired pressure data.



10. Low Pressure Setting for Caravan

While the low pressure data and two or four tyre (single/dual axle) icons are flashing, press the button '+' or '-' to set the desired pressure data.



11. High Pressure for Caravan Spare Tyre

While the spare tyre and the high pressure data icons are flashing, press the '+' or '-' button to select the desired pressure data.



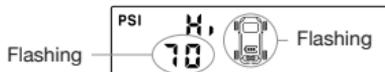
12. Low Pressure for Caravan Spare Tyre

While the spare tyre and the low pressure data icons are flashing, press the '+' or '-' button to select the desired pressure data.



13. High Temperature Setting for Car and Caravan

While the high temperature data and all tyre icons are flashing, press the '+' or '-' button to set the desired temperature data.



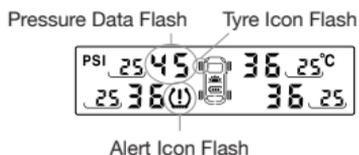
5. ALARM CONDITION

High / Low Pressure Alert / High Temperature Alert / Fast Leakage Alert / Sensor Low Battery Alert/ Sensor Loosen Alert

The monitor displays the temperature and the pressure data of the sensors simultaneously. When the tyre pressure or the temperature exceeds the safety range setting, the corresponding tyre icon, parameter and corresponding alert icon (⚠, ⚡) on the LCD display will blink and alarm tone will prompt. Press any key to cancel the alarm tone, but the corresponding tyre icon, parameter and corresponding alert icon will blink until all tyre faults have been rectified.

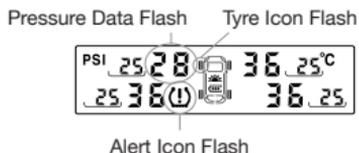
5-1. High Pressure Alert

E.g. If the front left tyre pressure is 45PSI for example, the monitor will alert together with a warning beep, and the alert icon will flash.



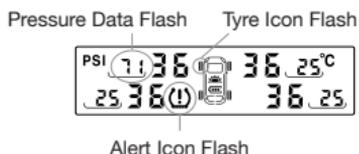
5-2. Low Pressure Alert

E.g. If the front left tyre pressure is 28PSI, the monitor will alert together with a warning beep, and the alert icon will flash.



5-3. High Temperature Alert

E.g. If the front left tyre temperature is 71°C, the monitor will alert together with a warning beep, and the alert icon will flash.

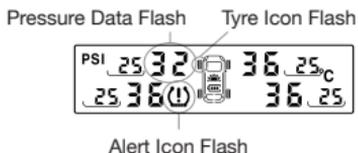




5-4. Fast Leakage Alert

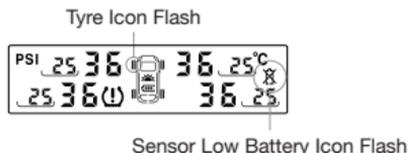
The sensor will send data to the monitor if it detects a fast leak in a tyre. The tyre icon, pressure data, alert icon and alarm tone will flash together. The flashing alert icon and a warning beep will be issued by the monitor simultaneously. Press any button to turn off the beep warning.

E.g. If the front left tyre pressure drops from 36PSI to 32PSI immediately, the monitor will alert as pictured below:



5-5. Sensor Low Battery Alert

If the sensor battery voltage is low, the sensor will send an alert to the monitor. The corresponding tyre icon and the low battery icon will flash and a warning beep will be issued. Press any button to turn off the warning beep, but the tyre icon and the low battery icon will still flash together until the sensor battery has been replaced.



5-6. Lost Or Loose Sensor Alert

If the monitor doesn't receive any data for a period of time whilst driving it will show the pressure and temperature data of the corresponding tyre as a dotted line (-- --) as pictured below.



6. OTHER FUNCTIONS

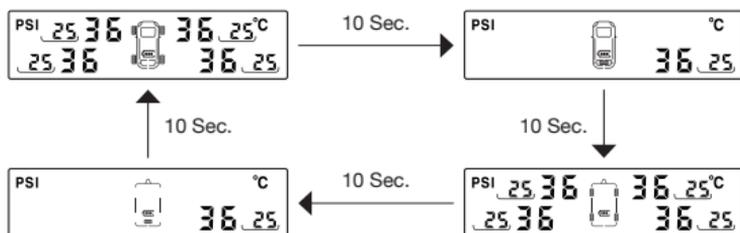
6-1. On/Off Road Mode

When 'airing' down your tyres on your car and or caravan, you can simply change to 'off road' mode so the monitor won't alert you unnecessarily thinking you have low tyre pressures. **Fast press the 'set' button five times to change to and from on and off road modes. (On road preset alarm threshold is set at 29-44PSI and off road 15-25PSI)**



6-2. Monitor tyre display

Depending on which kit you have, the monitor will be divided into 4 interfaces to display the pressure value of up to 10 tyres. The first interface displays the vehicles 4 tyres. The second interface displays the vehicles spare tyre. The third and fourth interface displays the caravan tyres including the spare tyre. The screen display rotates every 10 seconds.



6-3. Caravan Disconnect/Connect Feature

This feature allows you to 'disconnect' the caravan tyres from being displayed on the monitors LCD screen when not in use. Press the 'set' and '+' buttons for 3 seconds until a beep is heard to disconnect/connect.

6-4. Monitor Battery Saving Mode

The monitor will go into sleeping mode when the vehicle has not been in motion for 10 minutes. The monitor will not receive any data from the sensors. Upon vibration the monitor will wake up or you can press any button to wake up the monitor to go back into standby mode.



6-5. Auto Screen Brightness

The backlit LCD screen will come on automatically in low light situations and for night time driving.

6-6. Charging the Monitor

The monitors built in solar panel can recharge the internal battery and in most cases run it indefinitely if it has sufficient sun light. If enough sunlight is available the 'sun' symbol will be displayed (☀️). Please fully charge the monitor before first time use with the included USB cable.

7. SENSOR INSTALLATION

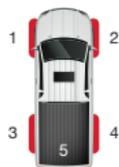
Each sensor has been marked with a position number and has been paired to the monitor from factory. Please install the sensors according to the below diagram.

Wheel Sensor Location

IC005



IC008



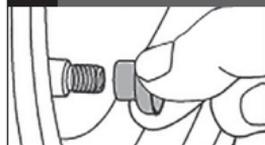
IC010



1 Unscrew the valve cap



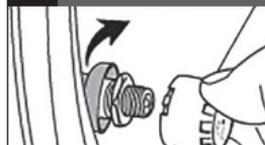
2 Insert dust proof cover onto the valve stem



3 Screw on the nut



4 Screw on the sensor



5 Tighten up the nut to the sensor with the spanner



6 Check air leakage by spraying soapy water



8. SENSOR BATTERY REPLACEMENT

When the sensor low battery icon 'X' shows on the monitor and the corresponding tyre icon in flashing, the sensor battery needs replacement. Replace using CR1632 Lithium batteries.

1. Hold the sensor inside the sensor opening tool and open sensor cover in a clockwise direction.



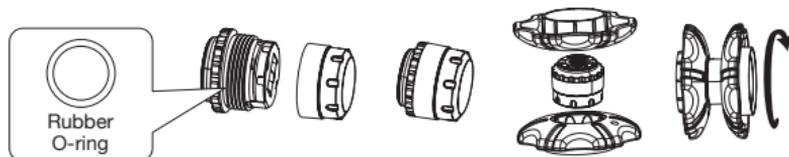
2. Take out old battery.



3. Replace with a CR1632 Lithium, ensure positive '+' is facing upwards.



4. When replacing batteries please ensure to replace with new rubber o-rings that are supplied in the kit.



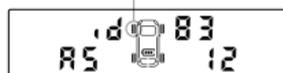


9. RECODE SENSORS

The factory has already coded all sensors to the monitor. If you happen to lose a sensor you can order a new one. You will then need to re-code this sensor to its original position by the following method.

1. In standby mode, press and hold the '+' button and release it after the beep to enter into learning mode, the tyre icon and the ID code will flash.
2. Press '-' or '+' to choose the desired tyre position.
3. Mount the sensor onto the tyre valve, then the ID code will be shown on the monitor with a beep.
4. Repeat the same steps for recoding additional sensors.
5. Press 'Set' until you hear a beep to save and exit.

Tyre Icon Flash



Example: Left Front Tyre ID as 83A524

10. TECHNICAL SPECIFICATION

Working temperature	-20°C ~ 80°C
Storage temperature	-30°C ~ 85°C
Output voltage/current	DC 5V/1A
Frequency	433.92 MHz
Monitor Dimension	104 (L) * 82 (W) * 29.5 (H)mm
Sensor Weight	9g

11. FAQ'S / SPECIAL NOTES

Q. What if my car already has a factory tyre pressure monitoring system?

A. You can still use the iCheckTPMS as it will also show your tyre temperatures and your spare tyre data.

Q. If I only install sensors on the car wheels will the monitor still show the spare tyre information?

A. No, the monitor will only show what sensors are in use and exclude those that aren't.

Q. What is the battery life of the wheel sensors?

A. Depending on how often you use your vehicle, you will get approximately a 2 year life span from the batteries.

Q. Are the sensors waterproof?

A. Yes. The wheel sensors have an IP67 waterproof rating. They can withstand a 30 minute immersion in up to one meter of water.

Q. Do I need to get my wheels re balanced after installing the sensors?

A. No. The wheel sensors only weigh 9 grams and won't affect the balance of your wheels.

Q. Why is one side of the monitor displaying higher pressures and temperatures?

A. This is quite common as the heat from the sun can increase the temperature and pressure of your tyres if one side of the vehicle is in direct sunlight.

Q. Do I need to use the rubber dust covers and lock nuts supplied in the kit?

A. No. Although advisable, the dust covers and lock nuts are there for theft prevention and sensor protection only.

Q. Why is the spare wheel not being displayed on the monitor?

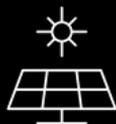
A. As the sensors are activated by motion your spare tyre sensor will go into sleep mode after a period of time and therefore stop being displayed on the monitor. It will however still alert you if the tyre drops below the preset threshold even though it is not being displayed on the monitor.



5 MINUTE DIY INSTALLATION



DASH MOUNT



BUILT IN SOLAR PANEL

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