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Product Introduction

Thanks for choosing Tyre Pilot TPMS product. The system is used to monitor the pressure and temperature of each tyre. Once the pressure and temperature parameters have been set by the user, the system will alarm if abnormal pressure and temperature are detected and alert the driver. The system should also improve fuel efficiency, prolong tyre life and make driving more comfortable. Please read the user guide carefully before installation and retain the manual for future reference.

Safety caution
It is highly recommended that you read the instructions before installing the system:
1. The monitor should be installed inside the vehicle where it does not affect driving visibility or impede vehicle controls.
2. The vehicle should be stopped and the tyres allowed to cool down, if there is a high temperature alarm this will avoid potential braking problems or tyre blowout.
3. Driver should stop the vehicle and check the tyre if there is high pressure or slow leakage alarm.
4. There is a danger of tyre blowout when the tyre pressure is too high, and both fuel consumption and wheel balance can be affected by high pressure.
5. The system can effectively monitor tyre pressure and temperature BUT it is not a replacement for vigilance, tyres should still be checked periodically with an appropriate tyre pressure gauge.
6. It is not recommended that you check tyre data whilst driving.
7. Any adjustment to the parameters should be performed when the vehicle is stationary and the parking brake applied.

Installation tips
1. The signal between the monitor and sensors is wireless, and the transmission distance is adequate for a passenger car due to internal anti-interference circuit design.
2. Due to air expansion and contraction, the tyre pressure and temperature will continually change whilst driving.
3. If the vehicle is not used for prolonged periods of time natural leakage between the rim and the tyre will occur. This is not a fault with the sensors.
4. Should you have any question or problem during the installation, please contact your local distributor.

Product Features
- Pressure and temperature alarm
- Visual and audible alarm
- Fixed pressure, temperature alarm level setting
- Multiple measurement unit (PSI/BAR)
- Display 4 Tyres simultaneously
- Fast leakage alert
- Easy installation, stable performance.
**Product Assembly**

Display Key and LCD diagram

1. LCD Screen
2. SET Key
3. Full Character Display
4. Current Output: 2A
5. Pressure unit BAR/PSI
6. Temperature °C only

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**Installation Instruction**

**Monitor Display Installation**

The LCD display is designed to utilise the cigarette lighter adaptor (CLA) power for a simple installation. Please plug the display firmly into the cigarette lighter socket to begin using the STP 1400.

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**User tip:** The STP 1400 is designed to be an aid to safe driving, please do not become distracted by the STP 1400 whilst driving.

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**Setting the parameters**

**Pressure Unit Selection**

Selection of pressure unit (PSI or Bar) can be done by user, details as below:

With the vehicle stationary and the STP1400 connected to the cigarette lighter socket.

Press and hold the SET button for 3 seconds to enter the setup mode, the unit will emit a beep and either Bar or PSI will begin to flash – to change from Bar and PSI or visa versa press the SET button.

Once you have selected the unit of pressure press and hold the SET button for two seconds to save and exit the set up or move on to setting the upper and lower pressure alarms – refer to High/Low Pressure Alarm Level Setting press the SET button for 1 second.

If the SET button is not pressed for two minutes the unit will automatically exit the setup mode.
High/Low Pressure Alarm Level Setting
With the vehicle stationary and the STP1400 connected to the cigarette lighter socket.

Press and hold the SET button for 3 seconds to enter the setup mode, a beep will be heard and Bar or PSI will begin to flash.

Press the SET button again for 1 second and UP will be displayed and a value, below, will flash – press the SET button to change the pressure setting.

**NOTE:** This setting is **MAXIMUM** pressure. Once you have reached the correct press setting press the SET button to set the LOW pressure and dO will be displayed, press the SET button to change the value.

To exit the setup mode press an hold the SET button for 2 seconds or to set the temperature alarm press the SET button for 1 second – refer to **Temperature Alarm Level Setting** for details.

If the SET button is not pressed for two minutes the unit will automatically exit the setup mode.

Temperature Alarm Level Setting
With the vehicle stationary and the STP1400 connected to the cigar lighter socket.

Press an hold the SET button for 3 seconds to enter the setup mode, the unit will emit a beep and either Bar or PSI will begin to flash, press the SET button 3 times until UP and oC is displayed.

Press the set button to change the **HIGH** temperature alarm value.

Once you have selected the unit of pressure press and hold the SET button for two seconds to save and exit.

If the SET button is not pressed for two minutes the unit will automatically exit the setup mode.

**SUMMARY:** Pressure Unit/ High Pressure Value/Low Pressure Value/High Temperature Value setup sequence as below:

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**Important Notice**

Purchasers of this product should not solely rely on this tyre pressure monitoring system for safety and should check the condition and pressure of their vehicles tyres on a regular basis as described by the manufacturer of the vehicle or tyre manufacturer. Please note, Snooper Tyre Pilot System operates on an RF system, as with many RF tyre systems this system can occasionally suffer from interference depending on the systems location; thus causing the system to be inaccurate or not operate at all. Tyre pressures and temperatures are not the only things that can affect tyre safety; we suggest daily visual inspections and periodic checks of the vehicle tyres.
Monitor Parameter Display

The display can show current tyre pressure and temperature.
By default the unit will display the current tyre pressures, to view the temperature press the **SET** button and the temperature will be displayed for 10 seconds before the unit reverts back to displaying the tyre pressures.

![Display Example](image)

Alarm Status

**High Pressure/Low Pressure/High Temperature/Fast Leakage/Sensor Low Battery Alarm**
The user interface will monitor the pressure and temperature of 4 tyres simultaneously. When the low pressure value is exceeded display will indicate corresponding alarm icon ( ¡ or § ) and the unit will beep. Press **SET** once will stop the alarm sound, the flashing icon can only be stopped when tyre problem is resolved.

**Factory default alarm setting:**

<table>
<thead>
<tr>
<th>Alarm Type</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Pressure Alarm level</td>
<td>3.0 Bar (44 PSI)</td>
</tr>
<tr>
<td>Low Pressure Alarm level</td>
<td>2.0 Bar (29 PSI)</td>
</tr>
<tr>
<td>High Temperature Alarm level</td>
<td>70 °C</td>
</tr>
</tbody>
</table>

**Step to restore factory default setting:** press and hold **SET** key and plug the console into the cigarette lighter power socket until **Bi...** sound to confirm factory setting was restored.

High Pressure Alarm
e.g. Left Front tyre pressure reached 3.1 Bar, display showing alarm with (Bi...Bi...Bi...) sound as shown.

![High Pressure Alarm](image)

Low Pressure Alarm
e.g. Left Front Tyre pressure reached 1.9 Bar, display showing alarm with (Bi...Bi...Bi...) sound as shown.

![Low Pressure Alarm](image)

High Temperature Alarm
e.g. Left Front tyre pressure reached 71°C, display showing alarm with (Bi...Bi...Bi...) sound as shown.

![High Temperature Alarm](image)

Fast Leakage Alarm
If a fast leak is detected the icon, on the display, will begin to flash and the alarm beep will sound.

To silence the alarm press the **SET** button, the flashing icon can only be stopped once the fast leak is resolved.

e.g. Left Front tyre pressure dropped from 2.4 Bar to 2.1 Bar, fast leakage display as shown.

![Fast Leakage Alarm](image)
Sensor Low Voltage Alarm
If one of the sensors battery becomes discharged it will send a signal to the user interface. Alarm (Bi...Bi...) sounds for 10 seconds, and alarm icon will flash.

Pressure reading and icon will flash alternatively (flash 3 second, pressure reading flash 5 seconds). Those flashing icon can only be stopped when sensor battery was replaced.

e.g. left front tyre battery low was detected, monitor alarm display as shown:

Custom ID Coding
The STP1400 is shipped with 4 sensors re-coded into the display, however should you need to replace a sensor please follow these instructions. Below is Inflation Code Learning to re-code the sensors ID:

Inflate Code Learning
1. In standby mode, quickly press SET button 5 times and release it after the Bi... sound to enter learning mode, the Left Front digits will flash on the LCD.
2. Short press SET once to scroll tyre position needed to re-code. Once ready, then mount the sensor on to the tyre valve, once the sensor sensed the inflation, the sensor will send its own ID code to the monitor and the monitor will display the sensor code after the Bi... sound. Repeat above step to re-code others sensor if needed.
3. If the ID code was NOT detected, system will keep the old code unchanged.
4. Any new ID code will overwrite the old ID code when detected.
5. IMPORTANT press SET until Bi... sound to ensure the new code saved into the monitor.

6. During learning mode if no key was press for one minutes, the system will resume to standby operation without saving any changes.

Corresponding tyre display flashing

Sensors Installation
The sensors are pre-configured for each tyre location marked tyre position with: LF, LR, RF, RR with stickers. IMPORTANT: Please ensure the correct ‘marked’ sensor is fitted to corresponding tyre.

User tip: Please mount sensors based on Factory default position.

External Sensors Installation
User tip: Please be sure to turn the monitor ON first before installing a sensor.

Please note:
1. Each sensor are labelled with its wheel position.
2. If the battery inside sensor has insufficient voltage it will trigger battery low alarm.
3. After all sensor has been installed, please check that there is no air leakage.
Sensor Battery Replacement

1. Utilise the tools provided inside package and open the plastic enclosure in counter clockwise direction.

   - Locking cover
   - Battery opener tools

2. Remove battery from battery holder.

3. Replace new lithium battery CR1225 with "+ve" polarity upside.

   - CR1225 Lithium Battery

4. Remount plastic enclosure using the tool provided in counter clockwise direction.

   - User tip: Please inspect the rubber o-ring for damage and replace with a new one if required.

   - Rubber O-ring

   - Locate concave shape on sensor surface

   - Mount concave plastic in line with convex position

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Technical Specification

<table>
<thead>
<tr>
<th>Monitor Specification</th>
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</thead>
<tbody>
<tr>
<td><strong>Working temperature</strong></td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
</tr>
<tr>
<td><strong>Input Voltage</strong></td>
</tr>
<tr>
<td><strong>Output Charging Current</strong></td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
</tr>
<tr>
<td><strong>Size</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
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</tbody>
</table>

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<tr>
<th>Sensor Specification</th>
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<tbody>
<tr>
<td><strong>Working temperature</strong></td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
</tr>
<tr>
<td><strong>Pressure range</strong></td>
</tr>
<tr>
<td><strong>Pressure Accuracy</strong></td>
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<tr>
<td><strong>Temperature Accuracy</strong></td>
</tr>
<tr>
<td><strong>Transmission Power</strong></td>
</tr>
<tr>
<td><strong>Transmission</strong></td>
</tr>
<tr>
<td><strong>Battery life</strong></td>
</tr>
<tr>
<td><strong>Battery Type</strong></td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
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<tr>
<td><strong>Weight</strong></td>
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</tbody>
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Important Notice

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