

STEELMATE

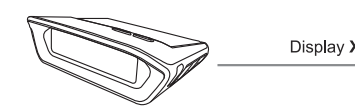
TP-V3I

Solar Powered TPMS For Trailer

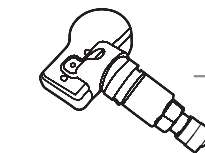


Manual

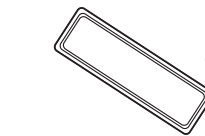
Includes



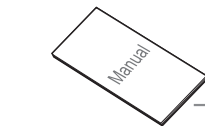
Display X1



Sensor X6



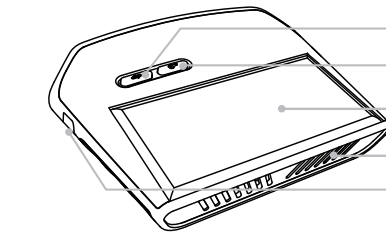
Anti-slip mat X1



Manual X1

(Please keep it in vehicle carefully)

Brief look



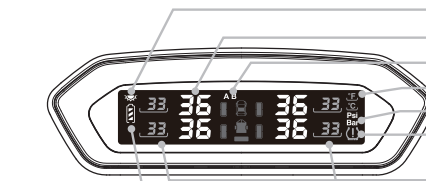
Select button

SET button

Solar panel

Ventilation holes

Micro USB input



Charging status

Pressure data

Axles of trailer

Temperature unit

Pressure unit

Warning indicator

Temperature data

Display battery indicator



Tractor interface



Trailer interface



Spare tire interface

Notes:

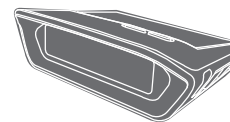
- 1.The display will enter sleeping mode automatically when the display without detecting the vibration in 2 minutes.
- 2.The display will wake up automatically in sleeping mode when the display detects the vibration or be pressed the button.

Display ON/OFF

Press any button for 3 seconds to turn on the display.
Press " ← " button for 3 seconds to turn off the display.

Display installation

Installation position



- Place the anti-slip mat under the display

Cigarette lighter charging connection

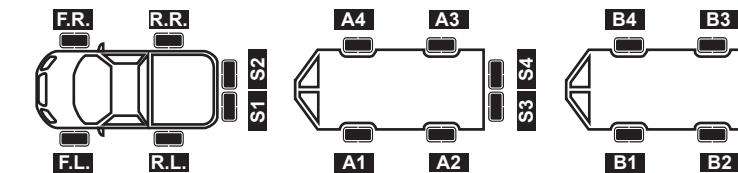
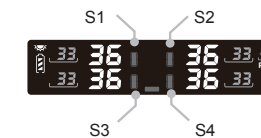
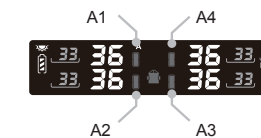
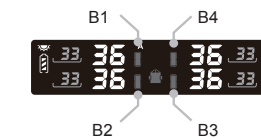
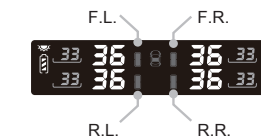


Micro USB Plug



USB charger
(Not included)

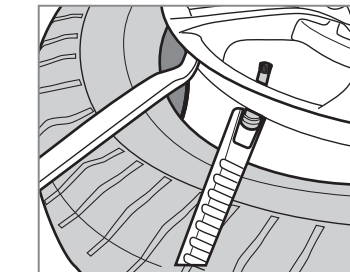
Sensor position



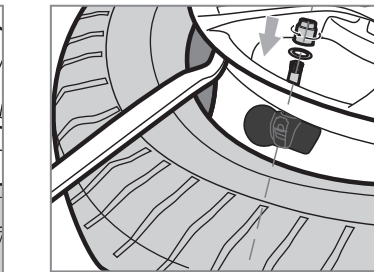
Note: It's recommended to install the sensor follow the corresponding tire position on the above.

Sensor installation

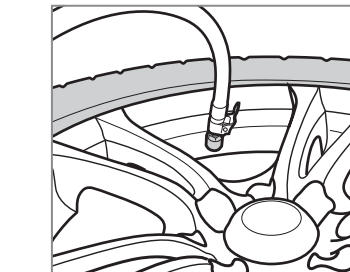
1.Remove the original valve from vehicle



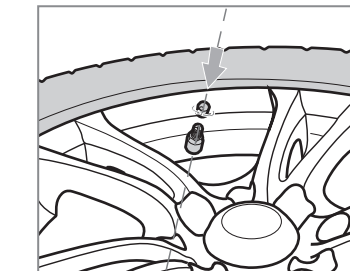
2.Install sensor in the corresponding tire according to the position sticker on the sensor



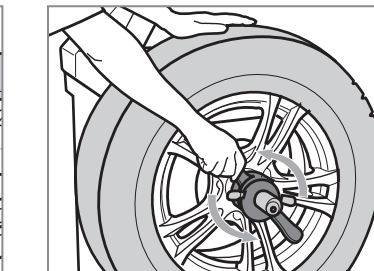
3.Inflate the tire



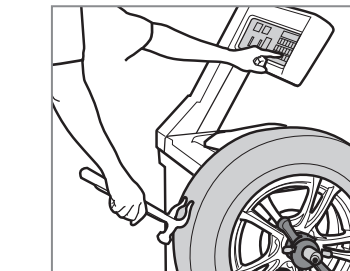
4.Screw the nut and valve cap



5.Perform a dynamic balance testing

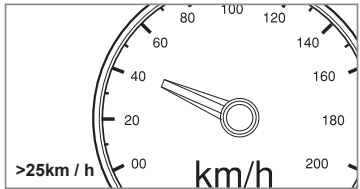


6.Adjusting and counterweight by putting the weight bar



Functional test after installation

Display will show real time tire data automatically when the speed is over 25km/h (15.5MPH)

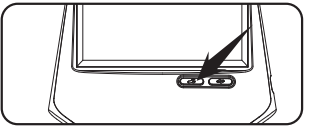


Installation is done once tires data received and showed at the same time

Sensor programming(All sensors in package are preprogrammed)

⚠ It is used to program a new sensor or a missing sensor to the display.

Press "🔧" button for 5 times, the display beeps once and enters programming mode.



2. Select the desired tire position by the following steps:

- Hold "↔" button and press "🔧" button once to select the interface. (Interface sequence: Tractor → Axle A of Trailer → Axle B of Trailer→ Spare tire)
- Then press "↔" button to select the desired tire.



3. Screw the new sensor to the corresponding tire and secure it with nut.



4. The corresponding tire data will be shown on the display, then press "🔧" button once to save the data.



5. Press "↔" button to select the next tire to program the other sensor.



6. After the sensors are programmed, press "🔧" button for 4 seconds to exit the programming mode.



Different Scenarios

Normal



Air leakage



Low pressure



High pressure



High temperature



Sensor low battery



Sensor failure



Display low battery



Note:

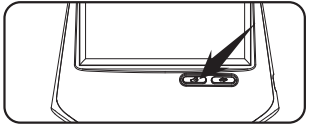
- In normal or alarm status, press "↔" button can view all programmed tires data.
- Press any button can mute the audible warning.

Function setting

Enter/Exit the setting mode

Press "🔧" button for 4 seconds to enter the setting mode with a beep sound.

Press "🔧" button for 4 seconds to exit the setting mode with two beep sounds.



The setting sequence as below:

Pressure unit → Temperature unit → Time interval of each interface



Tire data deletion



Disable/enable trailers and spare tires



High pressure value



Low pressure value



Temperatureunit setting:

In temperature unit setting page, press "↔" button to select the temperature unit, then press "🔧" button once to enter the next setting;



Time interval setting of eachinterface:

In time interval setting page, press "↔" button to set the time interval of each interface, then press "🔧" button once to enter the next setting.



Time intervals: 5 / 10 / 20 / 30 / 60 / OFF
Default: 5 seconds

High pressure value setting:

In high pressure value setting page.Hold"↔" button and press "🔧"button once to select the interface, then press"↔"button to set the high pressure value of current interface.

Finally, press "🔧"button once to enter the next setting.



Low pressure value setting:

In low pressure value setting page.Hold "↔" button and press "🔧"button once to select the interface, then press"↔" button to set the low pressure value of current interface.

Finally, press "🔧"button once to enter the next setting.



High temperature value setting:

In high temperature value setting page.Hold "↔" button and press "🔧" button once to select the interface, then press "↔"button to set the high temperature value of current interface.

Finally, press "🔧"button once to enter the next setting.



Disable/enable trailers and spare tires:

In trailers and spare tires disable/enable setting page, press "↔"button to select the programmed Axles of Trailer or Spare Tire, then press "↔"button for 3 seconds to disable it. If resume the disabled tire, press "↔" button to select desired the Axles of Trailer or Spare Tire, then press "↔" button for 3 seconds to enable it.

Finally, press "🔧"button once to enter the next setting.

For trailer, setting for the axles:



Enabled status(default)



Disabled status

For spare tires, setting for individual tire:



Enabled status(default)



Disabled status

Tire data deletion:

In tire data deletion page, press "↔" button to select the programmed tire data to be deleted.



Then hold "↔" button until the display shows "--", means the tire data has been deleted.



Specifications

Sensor:

Operating frequency: 433.92 ± 0.015MHz
Operating voltage: 2.0~3.6V
Operating temperature: -30℃~+105℃/-22℉~+221℉
Pressure range: 0~8Bar/0~116PSI

Display:

Operating frequency: 433.92 ± 0.015MHz
Operating voltage: 2.6~3.6V
Operating current: ≤2.5mA
Operating temperature: -20℃~+70℃/-4℉~+158℉

Adjustable Alarm Value:

High pressure value: 2.6~7.9Bar/37~115PSI
Low pressure value: 0.9~3.9Bar/13~55PSI
High temperature value: 70~90℃/ 158℉~ 194℉

Default Value:

High pressure value: 3.3Bar/47PSI
Low pressure value: 1.7Bar/24PSI
High temperature value: 80℃/176℉

Precision:

Temperature: ±3℃/±5℉
Pressure: ±0.1Bar/±0.2PSI

1Bar = 14.5PSI =100K Pa = 1.02kgf/cm²

Note: The alarm pressure value suggest to be ±25% of recommended tire pressure

Disclaimer

- TPMS (Tire pressure Monitoring System) is designed for monitoring tire irregularities. Driver has responsibility to maintain tires regularly.
- Driver should react promptly once warning from this unit alerted.
- Steelmate do not guarantee or assume liability for the loss of sensors.
- If the solar energy display placed in temperatures higher than 85℃ (or 185℉), it may permanently damage the built-in battery s capacity.
- The built-in battery is damaged if the display won't be powered/charged or the case of display expanded. Please stop using it and change it at local dealer.
- Discharge and charge fully every 6 months to preserve battery life.
- Store between -40℃ to +85℃ (-40℉ to +185℉)
Charge between -10℃ to +65℃ (+14℉ to +149℉)
- Do not expose the battery to high heat or direct flame.
- Dispose of properly.
- Do not throw in trash or incinerate.
- Do not get battery wet, store in high humidity or otherwise short circuit.
- Do not disassemble or tamper with battery.

Troubleshooting

1. After the installation, there is no tire data on the display.

- The sensors are not programed to the display. Please reprogram the sensors.
- The display should show the real time tire data automatically when the speed is over 25km/h.
- Please make sure the display is turned on and charged.

2. There is no tire data for one of tires on the display.

- That sensor is not programmed to the display. Please reprogram it.
- There is a problem with the sensor.

3. The system has a problem when there is "--" appeared occasionally

- The signal that is transmitted is a RF signal and is much like a cellphone signal. The FCC requires to allow all other RF signals to interfere with the system signals and this can cause the monitor to occasionally miss a transmission from the sensors. If this persists then you could have a damaged sensor or the batteries could be weak.