

STEELMATE

TPMS for Motorcycle
TP-93

User Manual

Includes

Display X1

Sensor X2

Washer X3
(1 spare)

Nut X3
(1 spare)

Bracket X1

USB cable X1

Spanner X1

For the sensor cover

For the nut

(Please keep it in motorcycle carefully)

Brief look of display

Time

AM/PM display

Warning indicator

Battery indicator

Pressure unit

Front tire

Rear tire

Pressure data

Select button

Set button

Nut

Charging port

Display installation

Nut

Locking screw

Universal ball head

Locking knob for fixing the direction of the display

Locking knob for fixing the clamp

Clamp

Anti-slip silicone mat

Display ON/OFF

Press and hold any button to turn the display on.
Press and hold “^” button to turn the display off.

Display charging

The built-in lithium battery of the display is rechargeable. When the battery icon appears, you need to charge the display immediately.

Sensor installation

1 Unscrew the valve cap

2 Screw in the nut

3 Screw on the sensor with washer

4 Tighten up the nut to the sensor by using the spanner

5 Check air leakage by spraying soap water

Replacement for sensor battery

1 Unscrew the nut

2 Unscrew the sensor

3 Take out the washer

4 Unscrew the sensor cover by using the spanner

5 Replace new battery and ensure positive “+” is facing upwards

6 Repeat steps in “Sensor installation”

Functional test after installation

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

2 Installation is done when the display shows all tire data.

Different scenarios

Normal

Fast Leakage

High pressure

Low pressure

Sensor programming (Reminder: All sensors in this package are pre-programmed)

1 Press the “SET” button for 5 times, and the display “Bi” once to enter the programming mode

2 Press “Select” button to select the front or rear tire

3 Disassemble the sensor and reinstall new one on the selected tire

4 Deflate the selected tire until the display receives the data

5 Press the “SET” button and the display “Bi” once to indicate successful programming

6 Press “Select” button to program the next tire via repeat above step 3-5

7 Press and hold the “SET” button, and the display “Bi” twice to save and exit the programming mode

Parameter setting

1 Sequence of Setting mode

2 Press and hold “SET” button the display “Bi” once to enter the setting mode

3 Press “Select” button to select the minutes. Then press “SET” button to save and enter the next setting

4 Press “Select” button to set the front tire threshold value. Then press “SET” button to save and enter the next setting

5 Press “Select” button to set the rear tire threshold value. Then press “SET” button to save and enter the next setting

6 Press “Select” button to set the high temperature value. Then press “SET” button to save and enter the next setting

7 Press “Select” button to set the AM/PM. Then press “SET” button to save and enter the next setting

8 Press “Select” button to set the hour. Then press “SET” button to save and enter the next setting

9 Press “Select” button to set the minute. Then press “SET” button to save and enter the next setting

10 Press and hold “SET” button, the display “Bi” twice to save settings and exit the setting mode

Specifications

Sensor:
Operating frequency: 433.92±0.05MHz
Operating voltage: 2.3V ~ 3.3V
Operating temperature: -20°C ~ +80°C / -4°F ~ +176°F
Pressure range: 0~4.5Bar/0~65PSI

Display:
Operating frequency: 433.92±0.05MHz
Operating voltage: 3.2V~4.2V
Charging voltage: 5V±0.5V
Charging current: ≤150mA
Operating temperature: -20°C ~ +70°C / -4°F ~ +158°F
IP rate:

Default:
Pressure unit: PSI
High temperature value: 80°C / 176°F

For front tire:
Threshold value: 2.2Bar / 32PSI
High pressure value: 130% of threshold value
Low pressure value: 70% of threshold value

For rear tire:
Threshold value: 2.4Bar / 35PSI
High pressure value: 130% of threshold value
Low pressure value: 70% of threshold value

Adjustable value range:
Threshold pressure: 2.0~3.5Bar / 29~51PSI
High temperature: 50°C~+90°C / 122°F~194°F

Precision:
Tire temperature: ±3°C/ ±5°F
Tire pressure: ±0.1Bar/ ±2PSI

Air pressure unit:
1 Bar = 14.5 PSI = 100K Pa = 1.02 Kg/ cm²

Disclaimer

• Tire Pressure Monitoring System (TPMS) is designed for monitoring tire abnormality, and providing user as a convenient secondary safety equipment.

• If the tire has been damaged or traffic accident occurs resulting from improper driving behavior, the company will not assume civil or criminal liability.

Troubleshooting

1.Sensor lost
• Check the sensor battery level.
• The sensors are not programmed to the display. Please reprogram the sensors.

2.Sensor battery is low
• Please replace the battery (Battery type: CR1632).

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 bu weak.