

**STEELMATE**  
Automotive

**TPMS for Motorcycle**  
TP-90  
Manual

**Includes**

- Display with cradle X1
- Sensor X2
- Washer X3 (1 spare)
- Nut X3 (1 spare)
- Dustproof cover X2
- Sensor tool (For battery replacement)
- Spanner

(Please keep it in motorcycle carefully)

**Brief look of display**

Front tire indicator  
Pressure data  
Temperature unit  
SET button  
Rear tire indicator  
Pressure unit  
Adjust button

**Display installation (clip on handle bar)**

- Find a place for mounting
- Clip the cradle on the handle bar
- Tightening the M4 screws by 3.0 mm hex key
- Wiring the display

**Display installation (stick on dash)**

- Loose the M3 screws on the cradle by 2.5mm hex key
- Tear off the sticker at the back of display
- Stick the display on dash and wiring
- ACC ON and display turns on

**Functional test after installation**

- Display will show real time tire data automatically when the speed is over 20km/h (12.4MPH)
- Installation is done once 2 tire data received and appears alternately indicator with corresponding status every 2 seconds.

**Sensor installation**

- Unscrew the valve cap
- Insert the dustproof cover into the valve stem
- Screw in the nut
- Screw on the sensor
- Tighten up the nut to the sensor by using the spanner
- Check air leakage by spraying soap water

**Sensor battery replacement**

- Unscrew the nut
- Unscrew the sensor
- Remove the washer
- Unscrew the sensor cover by using the sensor tool
- Replace new battery
- Follow the "sensor installation" steps above

**Different scenarios**

**Sensor programming (Reminder: All sensors are pre-programmed)**

- Press the "SET" button for 5 times, the display beeps once and enters program mode
- Press "▲" button or "▼" button to select front or rear tire
- Screw the new/ marked sensor to the corresponding tire (to avoid confusion) and secure it with the nut
- Tire pressure will show on the corresponding tire data position and press "SET" button to save data
- Press "▲" button or "▼" button once to program the next sensor
- Hold "SET" button for 3 seconds, it will beep twice to save and exit the program mode

**Parameter setting**

- Hold "SET" button for 3 seconds, the display beeps once and enters setting mode
- Setting mode sequence
- Press "▲" or "▼" button to select the pressure unit. Press "SET" button again to save and enter next setting.
- Press "▲" or "▼" button to select the temperature unit. Press "SET" button to save and enter next setting.
- Press "▲" or "▼" button to adjust the threshold value. Press "SET" button again to save and enter next setting.
- Press "▲" or "▼" button to adjust the high temperature value. Press "SET" button again to save and enter next setting.
- Press "▲" or "▼" button to select the low voltage value. Press "SET" button to save and enter next setting.
- Press "▲" or "▼" button to adjust the low voltage value. Press "SET" button again to save and enter next setting.
- Hold "SET" button for 3 seconds, the display will beep twice to save and exit the setting mode.

**Battery voltage checking**

- In normal, press "▼" button to enter voltage status mode.
- Press "▼" again, the display will change to normal status; If the value is lower than set value, the value will keep flashing for 5 seconds and exit automatically.

**Specifications**

**Sensor:**  
Operating frequency: 433.92±0.05MHz  
Operating voltage: 2.0V ~ 3.3V  
Operating temperature: -20°C ~ +60°C / -4°F ~ +140°F  
Pressure range: 0~4.5Bar / 0~65PSI

**Default:**  
Operating frequency: 433.92±0.05MHz  
Operating voltage: 9V ~ 16V  
Operating temperature: -40°C ~ +70°C / -40°F ~ +140°F

**Adjustable pressure range:**  
Pressure: 2~3.5Bar / 29~50PSI  
Temperature: +50°C~+80°C / +122°F~+176°F

**Monitor:**  
Pressure range: 0~4.5Bar / 0~65PSI  
Temperature range: +30°C~+80°C / +22°F~+176°F

**Default:**  
Pressure unit: Bar  
Temperature unit: °C  
Low Voltage value: 12V  
Threshold value: 2.5Bar / 36PSI  
High pressure alarm: 3.3Bar / 47PSI  
Low pressure alarm: 1.7Bar / 25PSI  
High temperature alarm: +80°C / +176°F

**Adjustable value range:**  
Low voltage: 11V~14V  
Threshold pressure: 2.0~3.5Bar / 29~50PSI  
High temperature: +50°C~+80°C / +122°F~+176°F

**Air pressure unit:**  
1 Bar = 14.5 PSI = 100K Pa = 1.02 Kgf/cm<sup>2</sup>

©Steelmate Co., Ltd. All rights reserved.  
The right to change the design and specifications reserved.  
The trademark, patent and copyright are owned by Steelmate Co., Ltd.

**Disclaimer**

- Tire Pressure Monitoring System (TPMS) is designed for monitoring tire irregularities. Driver has responsibility to maintain tires regularly.
- Driver should react promptly once warning from this unit alerted.
- Steelmate does not guarantee or assume liability for the loss of sensors.

**Notes:**

- This system is for 12V motorcycle with tire pressure within 4.5Bar/65PSI.
- All sensors in this unit have been pre-set individually for each tire in the factory.
- Whenever the location of tire changed, the sensors must be changed to the corresponding tire.
- The display will turn off after the motorcycle flame out.
- The brightness on the display will become dimmer after the first 30 seconds.
- The sensor battery life depends on the driving mileage.
- Pressure threshold value of front and rear tire can be adjusted separately.

**Troubleshooting**

- After sensor installation, air leakage happened**  
The tire values may not be universal standard, please check with the local workshop
- Once the installation is done, there is no tire data showed on display**  
Make sure ACC is on  
No as the weight of sensor is only 9.6g and it is located on the inner rim of wheel
- Sensor lost**  
Please buy a new sensor
- Sensor battery is low**  
Please replace the battery of CR1632
- Location of tire changed**  
Please reprogram the corresponding sensors

**FCC warning statement**

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
- This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
- However, there is no guarantee that interference will not occur in a particular installation.
- If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna
  - Increase the separation between the equipment and receiver
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
  - Consult the dealer or an experienced radio / TV technician for help