OMEGA
RESEARCH & DEVELOPMENT TECHNOLOGIES, INC.
powered by STEELMATE

DIY TPMS
Tire Pressure Monitoring System

SM-TP-71P

Manual

Specifications

Sensor:

Operating frequency:	433.92MHz
Transmitting Range:	4~6m (13~20 ft)
Battery voltage:	2.2V-3.6V
Operating temperature:	-20°C~+60°C/ -4°F~+140°F
Pressure range:	0~3.5 Bar/0~50Psi
High pressure value:	3.3 Bar/47Psi
Low pressure value:	1.7 Bar/25Psi

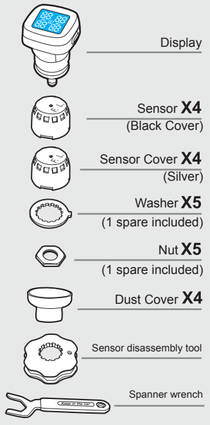
Display:

Operating frequency:	433.92MHz
Operating voltage:	12V±3V
Operating temperature:	-20°C~+70°C/ -4°F~+158°F
Accuracy:	
Temperature:	±1°C/±2°F
Pressure:	±0.1 Bar/±1.5Psi

Air pressure unit of measurement:
1Bar = 14.5Psi = 100KPa = 1.02Kgf/CM²

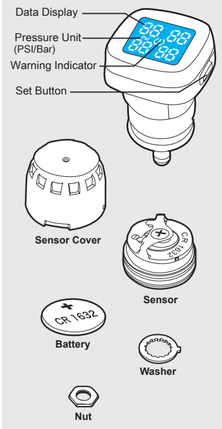
NOTE: The SM-TP-71P uses Psi only.

Parts List

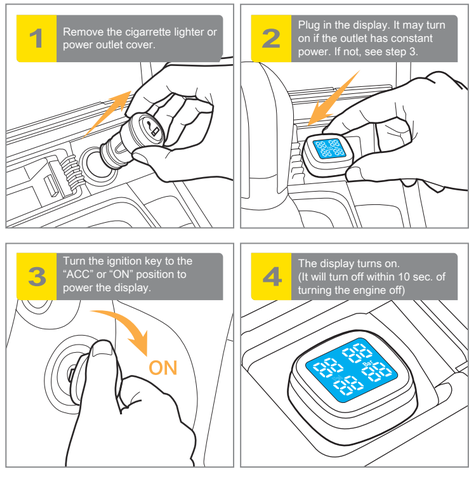


NOTE: Keep the tools in your vehicle to remove the sensors during tire service

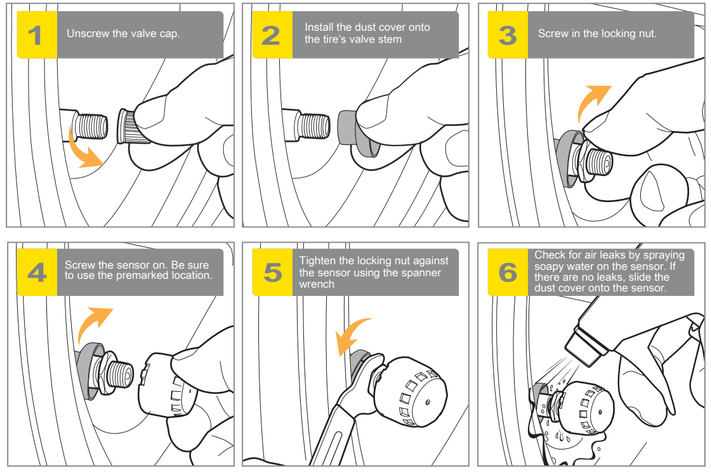
Display & Sensor Overview



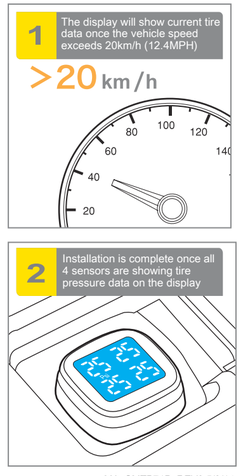
Installing The Display



Installing The Sensors

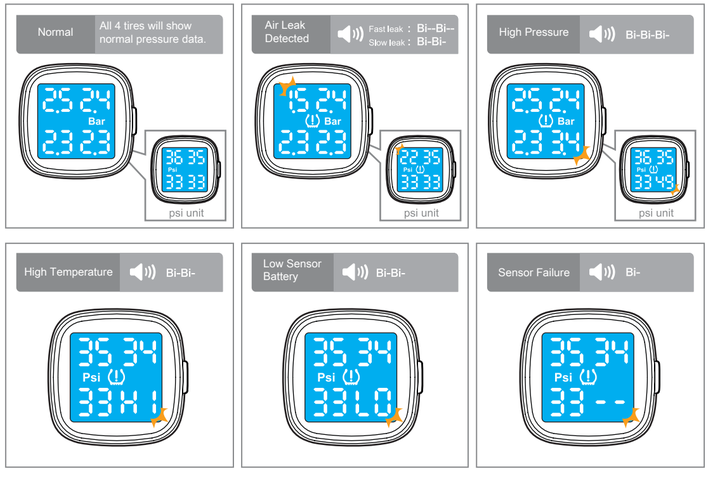


Testing The System

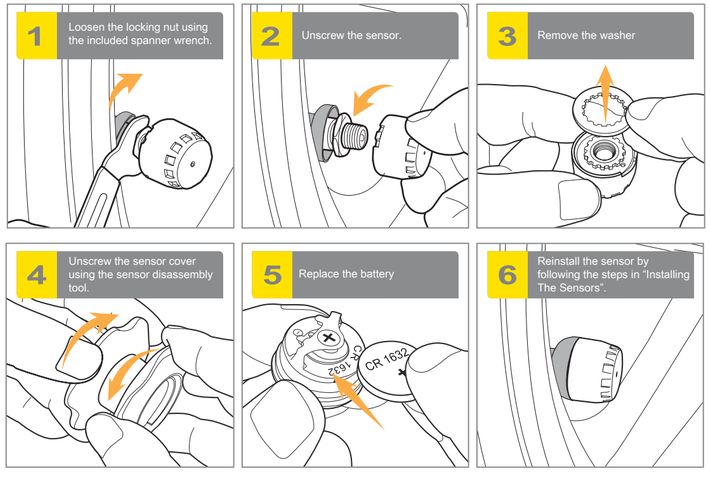


MA_SMTP71P_REV0 5/8/14

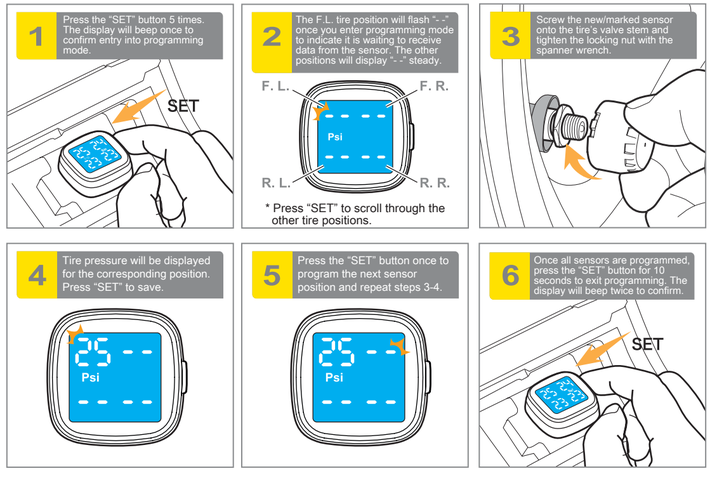
Different Display Scenarios



Replacing The Sensor Battery



Programming The Sensors (NOTE: All sensors are preprogrammed from the factory)



Troubleshooting

1. Air leaks are detected from the sensor:
The valve stem may not use the standardized thread pitch. Please consult with a local tire shop to confirm.
2. Tire data is not displayed after installation:
Make sure the display is being powered when the vehicle's key is "ON"
3. Tire sensors are lost:
Replacement sensors are available for purchase.
4. The sensor battery is low:
Replace the sensor battery with a new CR1632 battery
5. The tire locations have changed:
Either move the sensors to the appropriate locations or reprogram the sensors.

Note:
1. This system is designed to monitor many tire irregularities. The driver has the responsibility to properly maintain tire condition.
2. The driver should react as soon as possible when alerted by this system.
3. Omega does not guarantee or assume liability for the loss of sensors.
4. All sensors are pre-programmed for each tire position.
5. When tires are rotated, the sensors must stay in their original positions.
6. The display will turn off when the power outlet being used turns off.
7. The brightness on the display will dim automatically after being powered on for 30 seconds.