G70 Manual

TPMS

Tire Pressure Monitoring System

1. Product brouche

1.1Product Introduction

First of all, thanks for choosing our Tire Pressure Monitoring System, this system includes display and sensor.

Tire Pressure Monitoring System (TPMS) is used for real time monitoring pressure and temperature of tire, collecting data of pressure and temperature and transmit to display by RF, then shown the data on display. System will alarm according to the setting warning pressure and temperature value by end-users to avoid traffic accident.

Tire Pressure Monitoring System (TPMS) will improve the comfort the driving, fuel saving, reduce wear and tear.

Please read Installation Instructions before installing. Thank you!

1.2 Announcements

A. Display installing position should be not affect driver's sight;
B. Display should be flexible installed to avoid falling over while driving;
C. Temperature and pressure of tire will be increased while driving. Need to stop the car and have a rest while there was a “High temperature warning”;
D. If pressure continuously increased or decreased while driving, please stop and check each tire;
E. Pay attention tire flat while pressure too high and fuel saving while pressure too low;
F. Tire Pressure Monitoring System (TPMS) is designed for monitoring tire irregularities, Driver has responsibility to maintain tires regularly;
G. Please watch out to check tire while driving;
H.Tire Pressure Monitoring System (TPMS) can detect tire and warn automatically, driver doesn't need to notice frequently;

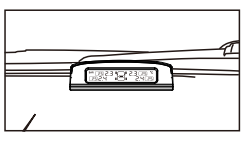
1.3 Installation notes

A. Display will turn off if no vibration in 10 minutes, turns on if there is any vibration and start to receive data from sensor.
B. Sensor and display is wireless connection, the transmission distance is far enough with anti-interference.
C. The tire pressure will be a little higher or lower cause by temperature when driving.
D.Tire pressure has natural leakage, tire pressure will reduce with time. No direct relation with install this product.
E. Please contact with our agent if there is any installation question.

2. Functions

★High pressure/Low pressure/High temperature/Fast leakage/lowbattery voltage warning
★Auto-charging solar energy display
★Both visual and audible warning available
★ Convertible pressure & temperature unit
★ All data is fixed and shown on display
★ 100% easy installation
★ Adjustable threshold value of tire pressure & temperature
★Optional Mini USB charge input

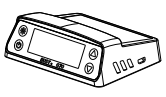
3. Installation instructions



Display installing position should not be affect driver's sight, with anti-slip mat to avoid falling over. Display need to be charged before first time using.

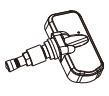
4.Components

4-1 built-in



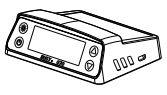
Display 1 pcs

Anti-slip mat 1 pcs



Built-in sensor 4 pcs

4-2 External



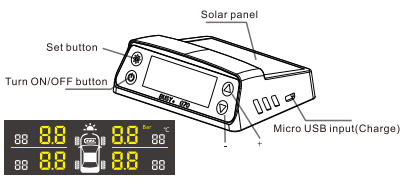
Display 1 pcs

External sensor 4 pcs

Spanner 1 pcs

Nut 5 pcs

4.3 Display



Icon	Description
	Tire
	Sensor low voltage warning
	Display battery capacity indicator
	Solar energy charging status

5.Parameters

In standby mode, hold “Set” button and stop until speaker chirp “Di” and corresponding icon flashing, press “+/-” to select parameter which need to be set, press “Set” button then press “+/-“ to set the value. Hold “Set” button and stop unit speaker chirp “Di”, system will save and quit setting mode.

Notes: System will quit to standby status if there is no any operation in 1 minutes.

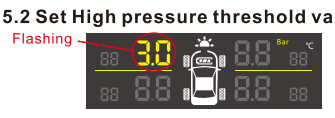
5.1 Factory setting

Pressure unit	BAR
High pressure threshold value	3. 0BAR（44PSI）
Low pressure threshold value	2. 0BAR（29PSI）
Temperature unit	℃
High temperature threshold value	70℃

Turn ON/OFF display:

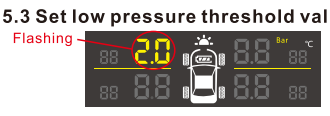
End-users can turn off the display manually when vehicle need to be park for a long time. In off status, hold “Turn ON/OFF” button until speaker chirp “Di”, display turns on; when on status, hold “Turn ON/OFF” button until speaker chirp “Di”, display turns off.

5.2 Set High pressure threshold value (Hi)



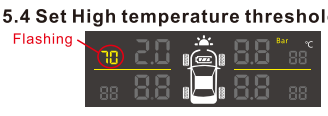
Iwhen high pressure value flashing, press “+/-” to set the value. (Factory setting: 3.0 Bar (44 Psi))

5.3 Set low pressure threshold value (Lo)



When low pressure value flashing, press “+/-” to set the value. (Factory setting: 2.0 Bar (29 Psi))

5.4 Set High temperature threshold value (℃)



When high temperature value flashing, press “+/-” to set the value. (Factory setting: 70℃)

6.Warning status

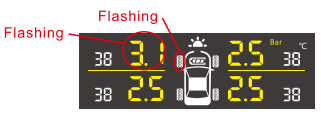
High pressure/Low pressure/High temperature/Fast leakage/low battery voltage warning

4 sensors tire pressure or temperature shown on shown, system will warning by corresponding icon flashing when tire pressure/temperature value over/less than the threshold value and will stop warning when all de failure solved.

For example: Factory settings as below table;

High pressure threshold value	3. 0 BAR
Low pressure threshold value	2. 0 BAR
High temperature threshold value	70 ℃

6.1 High pressure warning

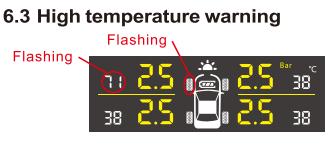


For example: while front left tire pressure is 3.1 Bar, display shown as below and will warn “Di…Di…Di…” for reminding

6.2 Low pressure warning

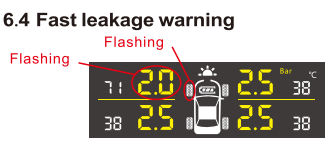
For example: while front left tire pressure is 1.9 Bar, display shown as below and will warn “Di…Di…Di…” for reminding

6.3 High temperature warning



For example: while front left tire temperature is 1.9 Bar, display shown as below and will warn “Di…Di…Di…” for reminding

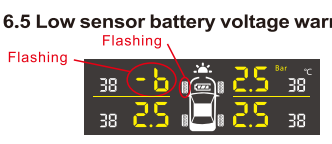
6.4 Fast leakage warning



When sensor detected fast leakage, will transmit data to display immediately and shown corresponding tire iron, pressure value on display with warning “Di……”. Press any button can cancel the warning, but the flashing of tire icon, pressure value will be back to normal unit all failure solved.

For example: front left tire pressure decreased to 2.0 Bar from 2.5 Bar, display shown as below.

6.5 Low sensor battery voltage warning (-b)



When sensor detected low battery voltage, will transmit warning data to display and shown corresponding tire icon, low battery voltage icon (-b) with warning “Di…Di…Di…” for reminding. Press any button can cancel the warning, but the flashing of tire icon, pressure value will be back to normal unit changing new battery.

For example: when front left tire sensor low battery, display shown as below.

7. Other functions

7.1 Power saving mode

When vehicle stop for 10 minutes and without charging, display will enter power saving mode automatically and will not receive any data from sensor. Press any button or vibration, display will enter standby mode.

7.2 Display charging

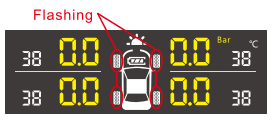
Solar energy display will built-in re-chargeable lithium battery, can be used after charging while there is enough solar. Battery capacity status has 3 levels, Please charge when icon shown on the display, charging will be finished in 2.5 hours. Icon means display is charging by solar.Notes: please charge the display with temperature 0~45℃.

8. Programming

Each sensor has been pre-set and with corresponding sticker in the factory, end-users just need to install the sensor to corresponding tire. When where is failure code, please refer to according instructions to re-program sensor.

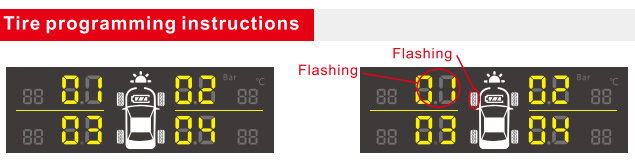
8.1 Air inflation programming

Each sensor has been pre-set and with corresponding sticker in the factory, end-users just need to install the sensor to corresponding tire. When where is failure code, please refer to according instructions to re-program sensor.



In standby status, press “Set” button and enter programming mode after speaker chirp “Di”.

9. Tire programming instructions



First step: Hold set button until system four tire icons appear with flashing;
Second step: Press downward button;
Third step: Hold set button until “01” tire flashing
While “01” tire need to be replaced to other tire number, hold upward button or downward button until appear the expected tire number. Press set button to confirm and quit the programming procedure.
Notes: If other tires need to be replaced to tire number “01”, press set button to the corresponding tire number after “01” appearing and flashing. The instruction is the same as above. Hold upward button or downward button until appear the expected tire number. Press set button to confirm and quit the programming procedure.

10. Display Technical paramete

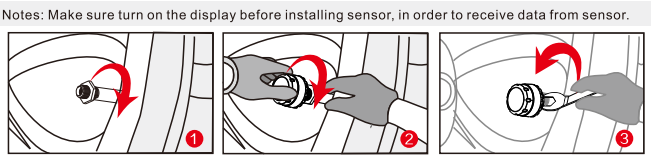
Pressure threshold value range	1.0~8BAR	Input voltage	2.5-13v
Temperature threshold value range	20~90℃	Frequency	433.92 Mhz
Working temperature	-40~+105℃	Size(L*W*H)	99*74*32mm
Storage temperature	-40~+125℃	Weight	105g

11. Sensor Technical Specification

list	External sensor	Built-in sensor
Working temperature	-40~+105℃	-40~+105℃
Storage temperature	-40~+125℃	-40~+125℃
Pressure range	0-8BAR	0-8BAR
Pressure precision	±0.1BAR	±0.1BAR
Temperature precision	1±.5℃	1±.5℃
Transition frequency	433.92Mhz	433.92Mhz
Battery life	≤2 years	≤2 years
Dimension (L*W*H)	21*21*12.5mm	56.5*79*15mm
Weight	9g	49g

12. Sensor installation

Notes: Make sure turn on the display before installing sensor, in order to receive data from sensor.

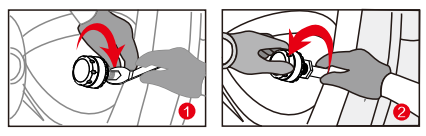


1. Screw in the nut
2. Screw on the sensor
3. Tighten up the nut to the sensor by using the spanner

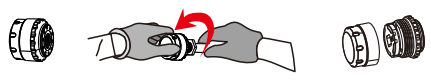
Notes: (1) Each sensor with corresponding tire position sticker, need to be installed on correct tire.
(2) There will be Low Voltage Warning on the display when low sensor voltage.

13.Sensor Battery Replacement

While display appear low voltage warning, please replace the sensor battery immediately.(Lithium battery CR1632, working temperature: -40℃ ~ +80℃)



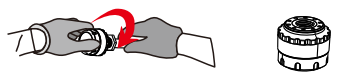
a.Unscrew the nut



b.Unscrew the sensor

c.Unscrew the sensor cover by using the sensor tool

d.Installation new battery and make sure positive pole on the top



f.Install the top and bot cover to corresponding position and screw in the cover

14. Notes

10.1 Please use this product correctly and use it within permitted range. Our company will not be responsible for consequence caused by incorrect using out the permitted range.
10.2 Please install this product according to “Manual”. Our company will not be responsible for the consequence caused by incorrect installation.
10.3 While setting threshold value, make sure comply with the threshold value range. Different vehicle model need to comply with the range supplied by tire parameter/manual/agent/distributor. Our company will not be responsible for the consequence by incorrect setting.
10.4 Our company will not announce for the contents modification in this manual. The images shown in this manual are indicative only, if there is inconsistency between the images and the actual product, the actual product shall govern.

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.