

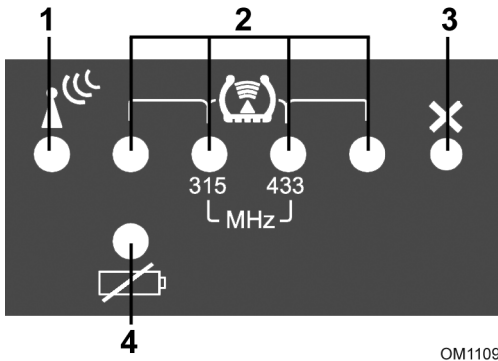
Introduction

Congratulations on choosing the OmiDetect 160 hand-held tester.

The OmiDetect 160 is a diagnostic tool for checking the basic function of Tyre Pressure Monitoring System (TPMS) valve sensors.

Overview

The OmiDetect display consists of 6 mode indicators and a Low Battery indicator.



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1. Listen Mode indicator
2. Forced Mode / Detected Frequency indicators
3. Invalid Response indicator
4. Low Battery indicator

When the battery requires replacing, the low battery indicator will illuminate, accompanied by a constant tone. The hand-held tester will automatically shut down after 5 seconds.

NOTE: The hand-held tester will not indicate a valid test result if the battery is depleted.

The OmiDetect is also equipped with a 2-button keypad:

Key	Function
	Press and hold for 2-3 seconds to switch OmiDetect on/off. Press and release to scroll through mode options.
	Press to start test

Operation

When using OmiDetect, observe the following precautions:

- Ensure vehicle is in 'park' or 'neutral' and the handbrake is applied.
- Keep away from metal objects, such as clamps, wheel alignment or tyre press equipment, as this will prevent a good RF signal.
- Keep away from known RF and RKE transmitters, such as mobile phones and vehicle keys. Signals received from these devices could result in an incorrect signal being detected.

OmiDetect offers two modes of operation which can be used to excite a TPMS valve:

Forced Mode: This mode is the most common method of exciting a TPMS valve sensor. The OmiDetect forces the TPMS valve to transmit by subjecting it to a low frequency RF Inductive field. The hand-held tester will then detect a signal transmitted by the valve on 315MHz or 433MHz frequency bands.

Listen Mode: In this mode the hand-held tester can be used to detect a signal being transmitted by a valve which has been excited by another method. Other methods include; wheel rotation, a change in tyre pressure, or being activated by a magnet.

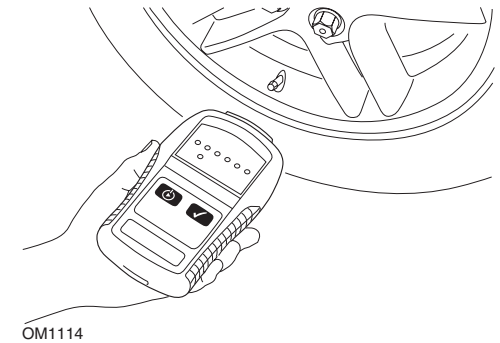
Using OmiDetect in Forced Mode

1. Switch on the hand-held tester by holding down the key for 2-3 seconds.

	Valve Type
	Siemens 2005 (PCM)
	Beru (PCM)
	TRW (PCM)
	Siemens 2004 (PCM)
	Schrader (Continuous)

2. Select the desired mode by repeatedly pressing the key until the appropriate mode LED(s) are illuminated.
NOTE: Refer to the table (on previous page) and the 'Quick vehicle guide' (on back of manual) to identify the desired mode setting. The latest vehicle coverage list can be downloaded from www.omitec.com.
3. Press the key to start test.

The display indicators will illuminate in sequence to indicate that OmiDetect is searching for a valid signal.
NOTE: If the test is not started within four seconds of the mode being selected, the hand-held tester will automatically switch off. This is a power saving feature and not a fault with the unit.



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4. Point the front end of the hand-held tester on or close to the tyre sidewall, where it meets the wheel rim, adjacent to the tyre valve.
NOTE: Do not aim directly at the valve stem. The valve is metal and will prevent a good activation RF signal from the OmiDetect.
On low profile tyres, the area for the RF to penetrate the sidewall is small, carefully aim the OmiDetect half way between the tyre rim and the tread.
5. A valid signal will be indicated by the appropriate frequency indicator illuminating continuously for 5 seconds and accompanied by 3 'beeps'.
If a valid signal is not received within the test cycle, the Invalid Response indicator will illuminate accompanied by a constant tone.
6. After completion of the test, the hand held tester will automatically switch off.




OmiDetect



Operating Instructions

Using OmiDetect in Listen Mode

If Forced Mode is unsuccessful then Listen Mode can be used.

1. Switch on the hand-held tester by holding down the  key, for 2-3 seconds.
2. Select Listen Mode by repeatedly pressing the  key until the Listen Mode LED is illuminated.
3. Press the  key to start the test cycle.

The frequency indicators will illuminate in sequence to indicate that OmiDetect is searching for a valid signal.

NOTE: If the test is not started within four seconds of the mode being selected, the hand-held tester will automatically switch off. This is a power saving feature and not a fault with the unit.

4. Hold the hand-held tester close to the tyre valve.
5. Press the valve stem to release air pressure for 5 seconds. This will induce immediate valve sensor transmission.

NOTE: Alternative methods of exciting a valve are:

- Using a wheel balancer, spin the wheel at a constant speed. TPMS valves automatically start transmitting pressure measurement and sensor ID data every few seconds when the tyre is rotating above a certain speed, typically about 20 mph.
- Some types of valve, such as 'early' Schrader valves may require a magnetic field to 'force' them to transmit. Simply hold a magnet close to the valve stem for a few seconds to activate valve transmission.

6. A valid signal will be indicated by the appropriate mode LED illuminating continuously for 5 seconds and accompanied by 3 'beeps'.

If a valid signal is not received within the test cycle, the Invalid Response indicator will illuminate accompanied by a constant tone.

7. After the completion of the test, the hand held tester will automatically switch off.

Fitting TPMS valves

Dependant on manufacturer, TPMS valves can be operated in a variety of ways. When replacing a TPMS valve, the hand-held tester should only be used as required, according to the valve manufacturer's instructions.

Quick vehicle guide

Valve Type	Vehicle Make
Siemens 2004/2005	Daimler Chrysler, Mitsubishi Motors
Beru	BMW, VW, Audi, Mercedes, Porsche
Schrader	Ford, GM Vauxhall, Nissan, Fiat, SAAB, Renault, Citroen, Peugeot, Daimler Chrysler
TRW	Honda, Kia, Hyundai

Specifications

TPMS valve sensor activation:	Inductively coupled RF at 125 KHz
Activation range:	50 - 200mm (2 - 8 in) dependant on sensor and wheel type
Activation formats:	Pulse Code Modulated (PCM) and continuous
RF detection frequencies:	315 MHz 433.92 MHz
Power	9V Battery (Alkaline/Manganese) - PP3, IEC 6LR61 or 6F22 <i>NOTE: DO NOT USE RECHARGEABLE BATTERIES DISPOSE OF USED BATTERIES IN ACCORDANCE WITH LOCAL AUTHORITY GUIDELINES.</i>
Approvals	CE, R&TTE

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