



# OES/AM anti-theft systems

4600 – product platform

**Vodafone**  
Power to you

The flexible architecture of this modular anti-theft range supports multiple product variants meeting aftermarket requirements and allowing for the development of OES solutions.

It is designed to be fully compatible with a wide range of CAN bus protocols (single and double wire, low and high speed layers) but it can be fitted to non CAN-based vehicles as well.

The small alarm control unit (ACU) with integrated ultrasonic volumetric sensor can be connected to either the vehicle's horn or a high-power siren; the latter may be a wired or wireless type.

Arming and disarming can take place via the vehicle's original remote door locking/unlocking system and/or via the Vodafone Automotive remote control.

Thanks to the latest technologies, the installers' job is easier and quicker; the number of wire connections is restricted to six (average) and, if the wireless siren is chosen, no wire needs to be routed from the engine bay to the passenger compartment where the control unit is fitted. The operating parameters and the CAN interface settings of the system can be configured by means of a programming tool (Data Linker), a specific application (Antares) and the model-specific application files that are available for download from the professional area of the Vodafone Automotive website.

## Description

A modular anti-theft alarm platform featuring a control unit with integrated ultrasonic volumetric sensor. Suits both CAN-based and non CAN-based vehicles.



4615 version – wireless central unit, backup battery siren and ultrasonic sensors.

## Key features

- Arming/disarming via the vehicle's original remote locking/unlocking system and/or via the Vodafone Automotive remote control system.
- Integrated engine immobiliser and ultrasonic volumetric detector, protection of vehicle perimeter (doors, boot, bonnet), ignition lock tamper protection.
- Multiple audible alarm options via the vehicle's warning horn or via different siren models (including a wireless type). Visual alarm via flashing of the turn indicators.
- LED indicator with diagnostic function.
- Anti-hijack function and control output for a pager.

## Benefits

- **Great versatility:** The system is designed to be compatible with a wide range of CAN bus protocols and also suits non CAN-based vehicles.
- **Flexible architecture:** The 4600 platform offers multiple product variants to suit different protection requirements.
- **Easy and quick installation:** As few as six wire connections required, with no need to route wires from the engine bay to the passenger compartment if the wireless siren is fitted.
- **Full support for the installer:** Installers are able to easily configure the CAN interface and operation parameters of each unit via a programming tool (Data Linker), a specific application (Antares) and the model-specific application files that are available for download from the Vodafone Automotive website.

## Additional vehicle-specific kit components

*(Development on request for OES applications)*

- Mounting bracket(s).
- Wiring harness.
- Fitting accessories.
- Packaging.
- User and installation manuals (OES).

## System arming and unarming

**Via the vehicle's original door control system:** The system arms itself when the doors are locked and disarms itself when they are unlocked.

**Via the Vodafone Automotive remote control:** This is an additional accessory if the vehicle has no original remote control system. The Vodafone Automotive remote control can be used in conjunction with the original one.

**Passive arming (programmable):** The system arms itself automatically 30 secs after the ignition has been turned off and the driver's door opened and subsequently closed.

**Passive re-arming (programmable):** The system re-arms automatically 115 secs after it has been disarmed if no door is opened.

**Emergency disarming:** In the event of loss or failure of the remote key, the system can be deactivated by entering a pin-code via the push-button LED.

## Protection functions

**Single engine immobilisation:** Once the system is armed starting becomes impossible.

**Perimetric protection:** Opening a door, the boot, or the bonnet triggers the alarm. The information is either provided by the CAN bus or collected through the alarm trigger inputs for contact switches.

**Ignition lock protection:** The alarm is triggered if ignition is turned on while the system is armed.

**Volumetric protection:** The vehicle interior is monitored by means of the ultrasonic sensor that is integrated within the control unit. The detection of unauthorised access triggers the alarm. No adjustment required. Volumetric protection can be temporarily disabled if required (e.g. when the user needs to leave a pet in the parked vehicle).

**Driver recognition (programmable):** Further security is available with a Driver's Card (additional accessory), which regularly transmits a signal to the engine.

**Audible alarm:** The ACU can be connected to the vehicle's original warning horn; a wireless backup battery siren > 108dB/2m; or a wired high-power siren > 108dB/2m.

**Visual alarm:** The turn indicators flash while the siren sounds.

## Comfort and diagnostic functions

**Alarm memory and diagnostics:** In the event that the system is triggered during the driver's absence, the driver is notified by audible and visual signals upon the subsequent disarming.

**Function check:** Allows driver to easily perform a test of the protection functions during the inhibition time that follows arming, without generating a full alarm cycle.

**Door closure check:** Warns the driver during the inhibition time that follows arming if any of the protected vehicle doors, boot or bonnet are not closed properly.

**Temporary deactivation of additional sensors:** A simple procedure allows the driver to temporarily disable any additional sensors if required.

**Garage mode:** When the unit is set to this mode, all automatic functions are temporarily disabled to allow the vehicle to be serviced.

## Product data

Nominal operating voltage (VDC):	12
Operating voltage range (VDC):	8 to 16
Operating temperature (°C):	-40 to +85
Siren sound pressure level (dBA at 2 m):	>108
ACU current consumption rate (mA):	
Armed:	<7
ACU + wireless backup battery siren (mA):	
Armed:	<11
ACU + wired siren (mA):	
Armed:	<7
Control unit dimensions (mm):	86.5 x 75.6 x 25
Sensor case dimensions (mm)	
ACU:	91 x 67 x 33
Wireless backup battery siren:	114 x 79 x 39
Wired siren:	67 x 75 x 40

## Homologations

ECER116 Vehicle Security Directive.

ECER10 Automotive EMC Directive.

99/5/EC RTTE Directive.

Vodafone Automotive engineers are available to support homologation to local insurance industry standards (such as Thatcham, SRA/CNPP, SCM/TNO).

