

VEHICLE SECURITY PRODUCT DEFINITIONS GUIDELINES

Thatcham Research

Thatcham Research is an independent non-profit making research centre. It was set up in 1969 by British insurers. Its main aim is to contain or reduce the cost of motor insurance claims whilst maintaining safety standards. The majority of Thatcham Research's work is funded by its member insurers. Over the years, Thatcham Research has developed and refined its activities and influence to encompass traditional damageability and reparability research, the publication of crash repair manuals and standard times, training and vehicle security.

Vehicle Security

The objective of product certification in accordance with Thatcham's Vehicle Security Criteria is to ensure a minimum high level of performance with regard to security, functionality, safety and reliability of the security product relative to particular identified risks.

Electronic Alarm and Immobiliser (Category 1)

The purpose of a Thatcham assessed Electronic Alarm and Immobiliser product is to prevent or curtail the unauthorised use of and unauthorised access into a protected vehicle.

Immobiliser

Immobilisation of the vehicle under its own power.

- Passively set
- Isolates a minimum of two operating circuits or systems, or a minimum of one operationally relevant vehicle control unit with coded intervention
- Immobiliser System resistance to attack tests for a minimum duration of 5 minutes

Alarm

The Alarm is to provide warning of an attempted intrusion into the passenger compartment or unauthorised interference with a vehicle.

- Perimeter detection
- Ignition detection
- Passenger compartment movement detection
- Audible warning with battery back-up power supply
- Siren Resistance to attack for a minimum duration of 1 minute

Electronic Immobiliser (Category 2)

The purpose of a Thatcham assessed Electronic Immobiliser product is to prevent or curtail the unauthorised use of a protected vehicle.

Immobiliser

Immobilisation of the vehicle under its own power.

- Passively set
- Isolates a minimum of two operating circuits or systems, or a minimum of one operationally relevant vehicle control unit with coded intervention
- Immobiliser System resistance to attack tests for a minimum duration of 5 minutes

Electronic Alarm (Category 2-1)

A Thatcham assessed 2-1 Electronic Alarm is to be combined on a vehicle installed with an existing Thatcham Category 2 immobilisation system to obtain a Thatcham Category 1 status.

Alarm

The Alarm is to provide warning of an attempted intrusion into the passenger compartment or unauthorised interference with a vehicle.

- Perimeter detection
- Ignition detection
- Passenger compartment movement detection
- Audible warning with battery back-up power supply
- Siren Resistance to attack for a minimum duration of 1 minute

Wheel Locking Devices (Category 4)

The purpose of a Thatcham assessed Wheel Locking Device is to prevent or curtail unauthorised removal of the vehicles road or spare wheels.

- Product Traceability
- Secure Key Replacement Procedure
- Reliability and Durability
- Resistance to attack for a minimum duration of 2 minutes
- Key Differs/Combinations
- Cross-contamination

Vehicle Tracking Systems (Category S5) – Superseding previous Category 5 or 6 from 1st January 2019

The purpose of the Thatcham assessed Vehicle Tracking System is to detect unauthorised use of a protected vehicle and increasing the probability of the recovery of a stolen vehicle.

- 24/7 monitored meeting the requirements of 'BS 8591 Remote centres receiving signals from alarm systems – Code of practice' Category 1 or equivalent standard
- Passively and Remote set function
- Health Check program
- Roaming SIM
- Global Positioning System (GPS)
- Driver Identification Device
- Vehicle motion detection
- Data logging
- Bi-Directional data transmission
- Battery back-up power supply
- Resistance to attack for a minimum of 2 minutes

Asset Location Systems (Category S7) – Superseding previous Category 6 or 7 from 1st January 2019

The purpose of the Thatcham assessed Asset Location System is to increase the probability of the recovery of a stolen asset.

- 24/7 monitored meeting the requirements of 'BS 8591 Remote centres receiving signals from alarm systems – Code of practice' Category 1 or equivalent standard
- Passively and Remote set function
- Health Check program
- Means of locating Asset within a 1-mile radius in general terrain
- Precisely locatable within 15 minutes from signal receipt on Thatcham pursuit test
- A minimum of one means of transmission of signal
- Battery back-up power supply
- Resistance to attack for a minimum of 2 minutes

Whole Vehicle Marking

Thatcham assessed Whole Vehicle Marking products are a mix of both overt and covert markings. Utilising a minimum of 2 marking techniques incorporated into any recognised System and shall contain information on how to interact with the appropriate secure database, which will act as a theft deterrent.

- Chemical or Laser etching
- Stamping or Engraving
- Microdots and/or forensic DNA
- Radio Frequency Identity Tags (RFID)
- Security Labels
- UV Footprint

On-Board Diagnostics Electronic Port Protection

The purpose of the On-Board Diagnostics Electronic Port Protection system is to provide electronic protection of the On-Board Diagnostics port from unauthorised use of a protected vehicle.

- Passively set
- Isolate a minimum of two operating circuits or systems preventing key programming communication
- System resistance to attack tests for a minimum duration of 5 minutes