



ASR - is an innovative “black box”, which main designation is to analyze the accident and immediately inform proper offices about the occurrence.

Measuring System consists of:

- System of spatial orientation,
- Navigation system,
- System of measuring g-force,

Extension System

Way of communication: OBD2, an alarm, pager, barcode reader, display with the touch panel and a device compatible with Bluetooth 4.0 and ANT/ANT+.

Basic functionality

1. “Black box”

- Record of detailed driving parameters with 100[Hz] frequency,
- Record of basic driving parameters, asynchronous,
- Record of accidents exceeding acceptable g-force – two levels of configuration:
 - low g-force threshold – low priority,
 - high threshold – high priority;

2. Communication with GreenCloud:

- Transfer of archived, basic driving parameters;
- Transfer of archived accidents with the possibility to download detailed driving parameters covering the time of an accident, e.g. 30 seconds before the accident and 10 second after the accident;
- Configuring the work of “black box” and devices of Extension System;

Communication System

Modules such as: GSM, WIFI, USB, radio working at 2.4[GHz]band, radio working at 315[MHz], 433[MHz], 868[MHz], 915[MHz] bands. The systems communicate with Green Cloud – a system of quick informing about road accidents (E-Call).

Archiving system

Data carriers such as: NOR Flash, NAND Flash, FRAM and microSD.

Extended functionality

1. “Black box”

- Archiving measurement and accidents of the extension system

2. Communication with GreenCloud:

- Configuring the work of devices from Extension System;

3. Peripheral devices:

- Remote reading of the diagnosis parameters, on board diagnostics level 2 (OBDII);
- Alarm system protecting the cars from being stolen, remotely informs about the occurrence;
- Graphical interface allowing to configure the work of ASR Integration of ASR with IoT devices;