Easy Logic. Automatic speed threshold changing in different climate conditions

Development Instruction

www.galileosky.com
Application opportunities

- The monitoring system provides drivers with a real-time feedback and assists them in correcting their bad driving habits, speeding in particular.
- When it is raining, the speed threshold is changed automatically.
- Driven by received sensor’s values Galileosky device decides whether to lower speed threshold or not.
- Fully customizable, the solution considers climate conditions as required – there is no need to manually change the preset parameters.
- Instant notifications are available in different formats.
Ready-made custom Easy Logic algorithm
All the values are used as an example
How it works?

1. Galileosky device checks if it is raining by receiving the certain CAN bus ID of the vehicle. When received, the CAN message is being parsed to identify the correct ID, responsible for the rain sensor operation.

Find out, how to receive and parse CAN bus messages in user guides on www.galileosky.com.
2. If the variable we wrote the sensor data in is equal to 1 (in this case, 1 stands for raining), the maximum speed limit turns into 50 km/h instead of 70 km/h. After that, the sensor state data received from the CAN bus are repeatedly checked.

3. Next part of the algorithm describes the current vehicle speed control and the reaction to the speeding. Initially, when starting the tracking device, we set the maximum speed limit as 70 km/h.

4. Then, if the current vehicle speed exceeds the specified variable max_speed (it can be changed depending on the type of roads, season, etc.), a High.wav sound file stored on the SD card of the tracking device is played.

5. After a short delay, the current speed is checked again.

6. Custom algorithm of speed threshold change due to climate conditions is ready for use.