GEOBOX SMART

WORKFORCE MANAGEMENT

The GEObox smart can be placed in any vehicle. It transmits the coordinates of the vehicle as well as the readings of the sensors that are attached over the internet.

GEOBOX :: SENSORS

The GEObox smart has additionally to the GPS/GLONASS receiver the following interfaces:

- Digital inputs and outputs
- Analog inputs and outputs
- Serial interfaces
- CAN-bus

These can be used to connect e.g. sensors for detection of door closing, RFID

reader for driver identification or a temperature sensor. If the box is connected to the vehicles CAN-bus it is possible to receive the vehicles internal data transmitted and used online in the home office. This can be the fuel level, mileage or the next maintance service.
Additionally the GEObox XL has a touch screen for visualizing maps and business data and communication with the head quarters.

GEOBOX :: TELEMETRY

The connection of the GEObox is established normally over mobile internet (GPRS or HSUPA) to send its data to the HQ. If there is no connection possible, the data will be saved internally and will be sent during the next contact.
Instead of a GPRS modem it is also possible to integrate a communication over WLAN, WIMAX or ZIGBEE.
A server application collects the data in a central database. The configuration of the GEObox is done online over the server.

GEOBOX :: OFFICE

The data of the vehicles can be displayed and processed over a web portal as well as a multi user application GEOhausGIS. This application yield a complete GIS functionality, including connectors to standard GIS applications. The data of the vehicles and sensors can be processed with client data, planned tours and object location data. The results can be shown in a map or as textual or spreadsheet reports.

WORKFORCE MANAGEMENT

You can plan and optimize the workforce of your field crews. The tours can be provided to vehicles, groups and drivers. The client data for this can be imported from ERP-software.

TOUR OPTIMIZING

With GEOhausGIS you are able to optimize the planned tours of your field crews regarding crew education and abilities, time slots to be at the clients site, vehicle and delivery constraints.

COMMUNICATION WITH THE DRIVER

To communicate with the driver there can be a text message system or a smart phone app. Changing tours can be sent online to the driver to change his route.

REALTIME REACTION

In the system alarms can be configured that are triggered by events like geofencing (entering or leaving an area), sensor data exceeding an threshold (e.g. temperature too high), time-fencing (car moves out of office times) or a push button event of a driver. Every alarm is connected to an action like sending an Email or SMS, starting a script or accessing a webinterface. The events can be displayed in realtime to react like starting a replanning or activating an emergency plan.

GEOsat

TECHNICAL DATA

- GPS/GLONASS-Receiver
- 16 MHz ARM Processor
- 5 digital I/O as TTL or with drivers
- 5 analog I/O
- CAN-BUS Interface for OBDII (SAE J1979) and Fleet Management Interface(FMS)
- Powersupply by Batterie or by Vehicle (12V/24V)
- current <1mA (sleep), 1mA (measuring), <500mA (sending)
- Sending intervall 1s up to 30 days
- Sending buffer 1000 datensets
- Configuration online by server
- possible modems: GPRS, HSUPA, WIMAX, ZIGBEE, WLAN

GEOSAT GMBH

PART OF GEOHAUS GROUP

Löhberg 78
D-45468 Mülheim an der Ruhr

Tel.: +49 (0) 208 45000-0
Fax: +49 (0) 208 45000-32
E-Mail: info@geosat.de
Web: www.geosat.de