

# Manual

# Obserwando

**OBSERWANDO**

**Login**


User name

Password


Login

To access this restricted area you need access authorisation.

**GPS-Tracker**  
**EQTrace click**



**Theft Protection + Usage Times**  
**Battery operated**  
**installed in seconds**



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## 1. Introduction

Dear user,

this document is a manual for the „Obserwando“ portal at „[www.obserwando.de](http://www.obserwando.de)“.

### So, what is „Obserwando“?

„Obserwando“ is a service providing theft protection, data collection and access control for your machines and vehicles. We offer modern and innovative data collection devices which will be mounted on your machines. The service includes the data transfer to our server as well as the provision of the collected information with extensive evaluation options.

The manual will explain step by step how „Obserwando“ works and where you can find the individual functionality.

For illustration purposes you can use the guest account to login at „[www.obserwando.de](http://www.obserwando.de)“. The required login credentials are gast/gast.

To keep things simple we will always talk about machines. This can be any kind of mobile equipment such as vehicles, construction machines, working platforms etc.

Please do not hesitate to contact us if you have any questions or problems.

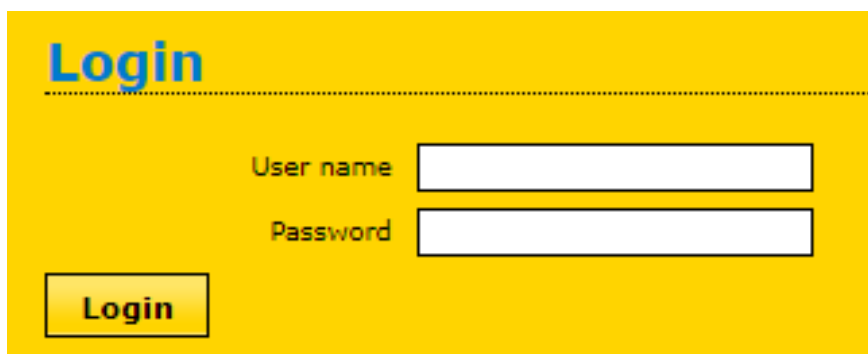
## 2. Registration/Login

Do you want to use „Obserwando“ devices with your machines? Just contact us via phone or email. Then we will discuss all the details with you and provide your access details for the portal at „[www.obserwando.de](http://www.obserwando.de)“ and the app.

You can find our contact details on „Page 48“.

After you got your access details, please go to the portal at „[www.obserwando.de](http://www.obserwando.de)“.

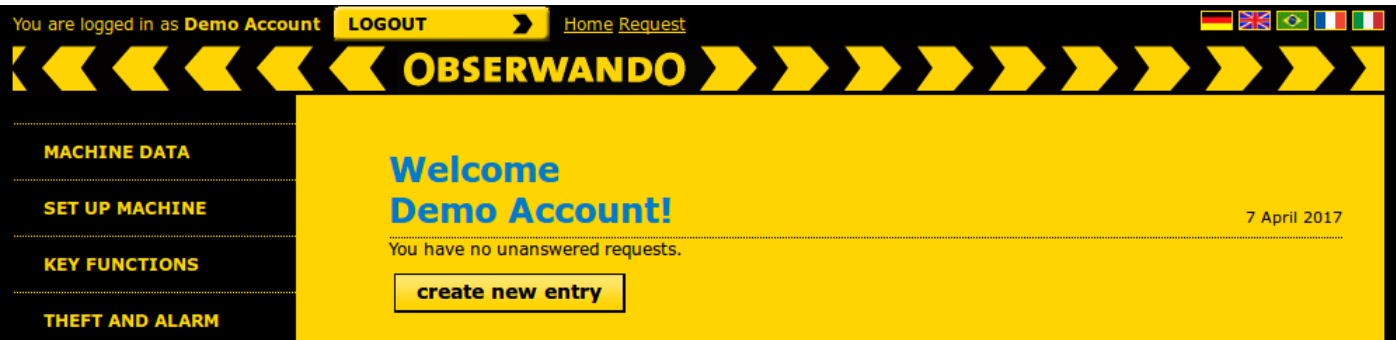
Please enter your credentials and click on „Login“ to log into the portal.



The main user will get the credentials from us and will then be able to create new users.

3. Homepage

After logging in you will see the homepage of the portal.



On the „homepage“ you will see news as well as the status of any orders or requests.

At the top right you can select the language for the portal. The current options are German, English, Portuguese (Brazil), French and Italian.

You can logout or go to the homepage by clicking onto the „Logout“ or „Home“ button at the top left, respectively.

When you click on „Request“ the following page will appear:

**New request**

type of request

subject

your message

attach file  No file selected.

On this page you can submit a request or provide feedback.

On the left side of the portal you can find the menu.

Alarm messages for you machines are displayed in the header as shown below.



## 4. Menu

Below an overview of the main menu items.

MACHINE DATA
SET UP MACHINE
KEY FUNCTIONS
THEFT AND ALARM
TOUR
MASTER DATA
ORDER ONLINE

The following pages will explain each menu item in more detail.

### 4.1. Machine data

The section „Machine data“ shows all information relating to billing, logistics and services. It includes a „[Machine overview](#)“ of all your machines, the „[Operating data](#)“, „[Machine position](#)“, „[Machine status](#)“, „[Remote diagnostics/Telediagnosis](#)“, „[Export](#)“, „[Tank monitoring](#)“, „[Fuel consumption](#)“ and „[Service alerts](#)“ of individual machines.

MACHINE DATA
>> Machine overview
Operating data
Machine position
Machine status
Remote diagnostics
Export
tank monitoring
Fuel consumption
Service alerts

4.1.1. Machine overview









Inside the ObserwandoPortal machines or machine groups can be displayed as following: Machine data → Machine overview.

















If you select items in the top line, machines which the selected conditions will be displayed.

Machine overview

Machine group: all



Machine: Please choose





all	Group	Name	Operating hours	Battery voltage	ATS	Last Statusmeldung	Total/Effektiv							
							02	03	04	05	06	07	08 10/2023	
<input type="checkbox"/>	Mobilbagger	MB4-L	K1: 40h		 Aus	vor over 6 years	/	/	/	/	/	/	/	
<input type="checkbox"/>	no group	MRT2550 (3238)	K1: 1h	 7%	 Aus	vor over 3 years	/	/	/	/	/	/	/	
<input type="checkbox"/>	no group	Q11	K1: 0h K2: 0h	 7%	 Aus	vor over 3 years	/	/	/	/	/	/	/	
<input type="checkbox"/>	no group	R-032_Bel_Roeler	K1: 0h	 10%	 Aus	vor 4 months	/	/	/	/	/	/	/	
<input type="checkbox"/>	Radlader	RL-FM4			 An	vor over 6 years				-				
<input type="checkbox"/>	Gabelstapler	Stapler_1	K1: 59h K2: 0h		 Aus	vor over 7 years	/	/	/	/	/	/	/	
<input type="checkbox"/>	Torsteuerung	Torsteuerung	K1: 0h		 Aus	vor over 5 years	/	/	/	/	/	/	/	
<input type="checkbox"/>	no group	Winterdienst	K1: 115h K2: 79h	 7%	 Aus	vor over 2 years	/	/	/	/	/	/	/	
<input type="checkbox"/>	no group	WLAN39	K1: 459h K2: 454h	 7%	 Aus	vor over 3 years	/	/	/	/	/	/	/	
<input type="checkbox"/>	no group	z_def 20007676	K1: 1069h K2: 53h	 7%	 Aus	vor about 1 year	/	/	/	/	/	/	/	

select an action

Execute



1 2 3 / 3



The icons:

Machine status:



Select the green icon to get only the active machines at the current time. Select the red icon to get only the machines actual inactive machines.

ATS:



Select the green icon to get only the machines with theft protection (ATS) enabled. Select the red icon to get only the machine wih theft protection (ATS) disabled.

Current alarm:



Select this icon to see only the machines with current alarm.



## Service (Requirement: Use of service parameters):



Select the red icon to get only the machines where stored in the service parameters a service is required. Select the green icon to get only machines where service is not required.

## Machine with overtime:



Select this icon to get only machines with overtime. They worked ore hours then allowed. You can also choose start time and stop time for this calculation.

## Reset filter:



Select this time to reset the selected filters.

One of the following actions can be choosen for the machines marked in the box in front of the machine:

- activate ATS
- deactivate ATS
- load operating data (only for devices up to 2014)
- load machine position (only for devices up to 2014)
- load tracking data (only for devices up to 2014)

Run „Execute“ to start the action.

## The table:

all 📄	Group	Name	Operating hours	Battery voltage	ATS	Last Statusmeldung	Total/Effektiv						
							02	03	04	05	06	07	08 10/2023
<input type="checkbox"/>	no group		K1: 0h K2: 0h	0 %		vor 28 days	/	/	/	/	/	/	/
<input type="checkbox"/>	no group	11110022	K1: 0h K2: 0h	0 %		vor 4 months	/	/	/	/	/	/	/
<input type="checkbox"/>	no group	11223340	K1: 0h K2: 0h	100 %	🟢 An	vor about 1 month	/	/	/	/	/	/	/
<input type="checkbox"/>	no group	11223341	K1: 41h K2: 26h	0 %	🔴 Alarms	vor about 1 month	/	/	/	/	/	/	/
<input type="checkbox"/>	no group	11223342	K1: 2h K2: 0h	0 %	🟡 Aus	vor 10 months	/	/	/	/	/	/	/
<input type="checkbox"/>	no group	11223343	K1: 10h K2: 8h	0 %		vor about 21 hours	/	/	/	08:00/00:19	/	/	/
<input type="checkbox"/>	no group	11223344	K1: 16h K2: 15h	100 %	🟡 Aus	vor 1 day	/	/	/	00:24/00:14	/	/	/
<input type="checkbox"/>	no group	11223345	K1: 0h K2: 0h	98 %	🟡 Aus	vor 3 months	/	/	/	/	/	/	/
<input type="checkbox"/>	no group	11223346	K1: 2h K2: 2h	0 %	🟡 Aus	vor 10 months	/	/	/	/	/	/	/
<input type="checkbox"/>	no group	11223347	K1: 0h K2: 0h	76 %	🟡 Aus	vor 3 months	/	/	/	/	/	/	/

For each machine you will see the group (if any), the name, the operating hours of each channel and the battery voltage in %. We'll also tell you if theft protection is enabled and when the server received the last status message from the machine. At the end of the table under Total / Effective the last seven calendar days are listed. It shows how long a machine has worked and in what time frame it has worked effectively.

#### 4.1.2. Operating data

Then you will see the different data.

This includes a table with the data of the different inputs, the battery voltage, a table with the operating hours and two further diagrams.

# Weekly data

Machine group

all

Machine

11223344

from

2024-01-01

to

2024-09-09

Settings

☒ Display operating hours and service

☒ Display battery voltage

☒ Display real operating hours

☒ Display calendar week

☒ Show days without data

Real operating hours for channel

Channel 1

Save settings

Show

Print

When using the service function you will also see the date, hours and km of the next service appointment.

Channel	Operating hours
Channel 1	59339
Channel 2	24406

In the operating data area, there is a separate table for machine service.  
If a service is due, the row is marked in red.

## Machine service

service	Alarm type	Alarm threshold	Current value
TÜV	Date	28/02/2025	10/09/2024
TÜV	Mileage	20000 km	0 km
TÜV	Operating hours Motor läuft	5000 h	38914 h
TÜV	Operating hours Channel 2	2500 h	13123 h



Diagram 1 shows the battery charge over time for the machine. The example is for a truck which has normally a battery charge of 24 volts. If the voltage is higher it means that the machine is in use and the battery is charging.

You can select a part of the diagram with your mouse to see it in more detail.

This can be done in the big and small windows. The excerpt will then be shown in the big diagram.

By clicking on the small window you can zoom out again.

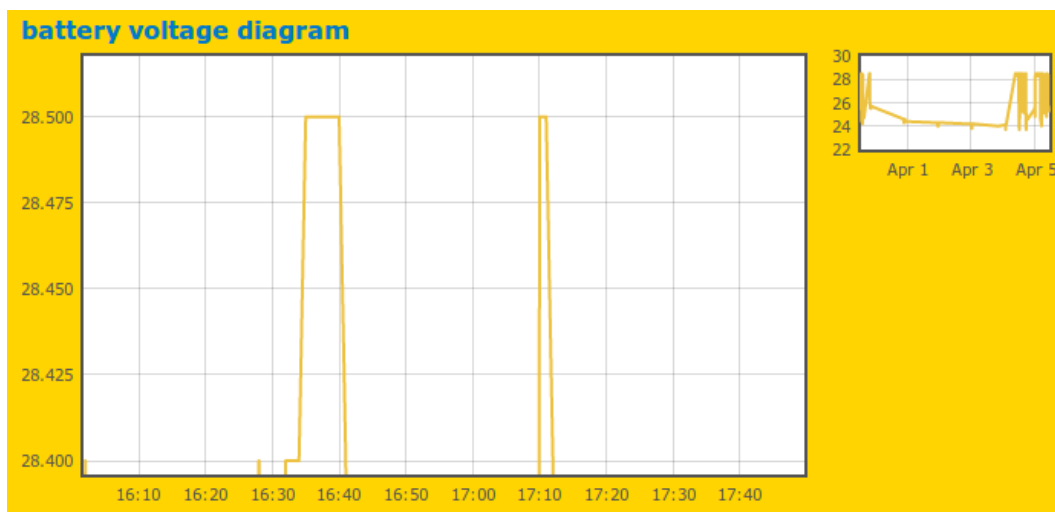
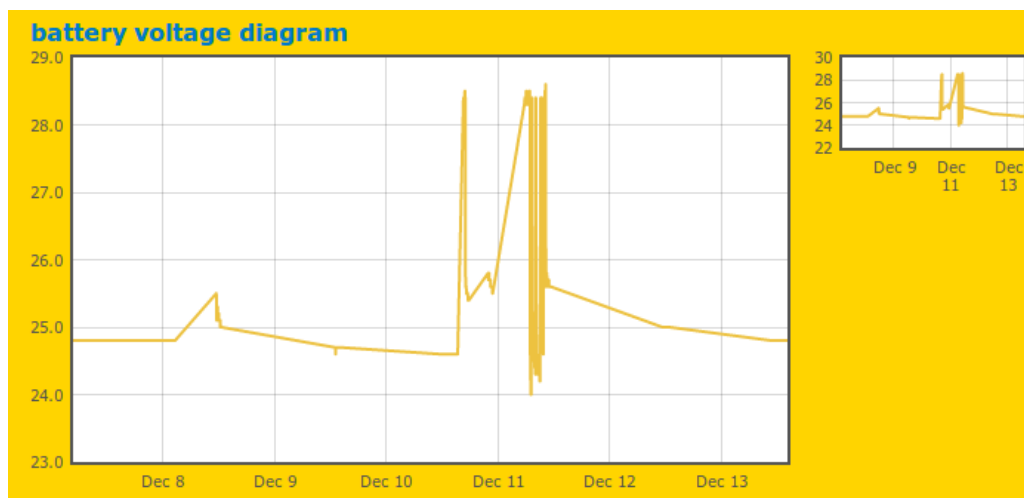


Table 2 shows when the machine has been operated. The calendar week, the day of the week, the start and stop time as well as the total usage time are shown. The effective usage time of the first input can be seen in the corresponding column.

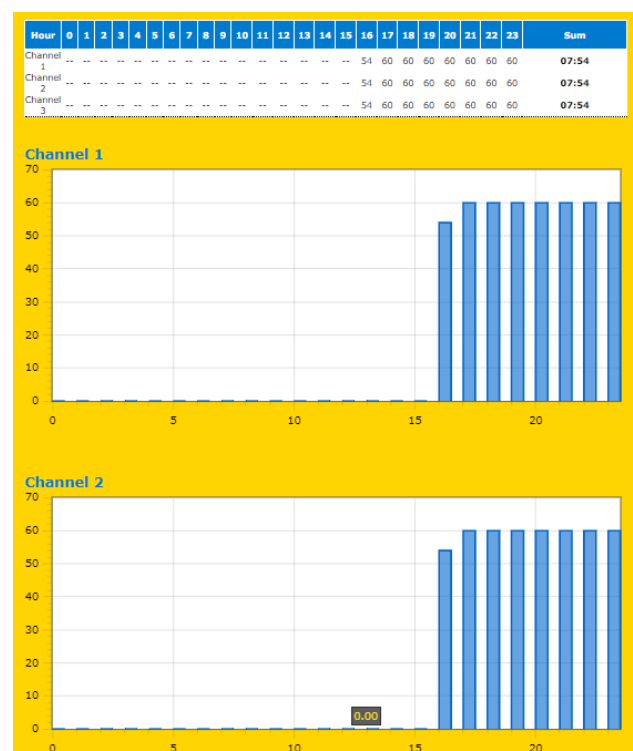
cw	day of the week	Start	stop	total	actual - Notaus	
2024 - 34	19/08/2024 - Monday	08:07	16:05	07:57	00:21	 
2024 - 34	20/08/2024 - Tuesday	12:37	16:53	04:15	03:09	 
2024 - 34	21/08/2024 - Wednesday	08:32	18:13	09:40	08:41	 
2024 - 34	22/08/2024 - Thursday	08:22	17:11	08:49	05:55	 
Total				30:41	18:08	

There are two additional symbols. A click on the arrow displays the minutes of the day according to the hour. The other symbol shows the individual hours of a day as a table and diagram.

cw	day of the week	Start	stop	total	actual - Notaus	
2024 - 34	19/08/2024 - Monday	08:07	16:05	07:57	00:21	 
2024 - 34	20/08/2024 - Tuesday	12:37	16:53	04:15	03:09	 
2024 - 34	21/08/2024 - Wednesday	08:32	18:13	09:40	08:41	 
2024 - 34	22/08/2024 - Thursday	08:22	17:11	08:49	05:55	

Hour	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	--	--	--	--	--	--	--	--	37	60	60	60	7	--	--	59	60	11	--	--	--	--	--	--	
Total													30:41		18:08										

Overview of the individual hours of a day in form of a table and diagrams.



The following diagrams show the usage period of the machine.  
The diagram at the top displays the total which is the total time from the first time the machine was turned on until the last time it was switched off.  
The other diagram shows the effective values which are the actual usage times of the machine. They can be significantly different from the values in the first diagram.  
This table should be used for billing of rental machines.

Diagram totals:

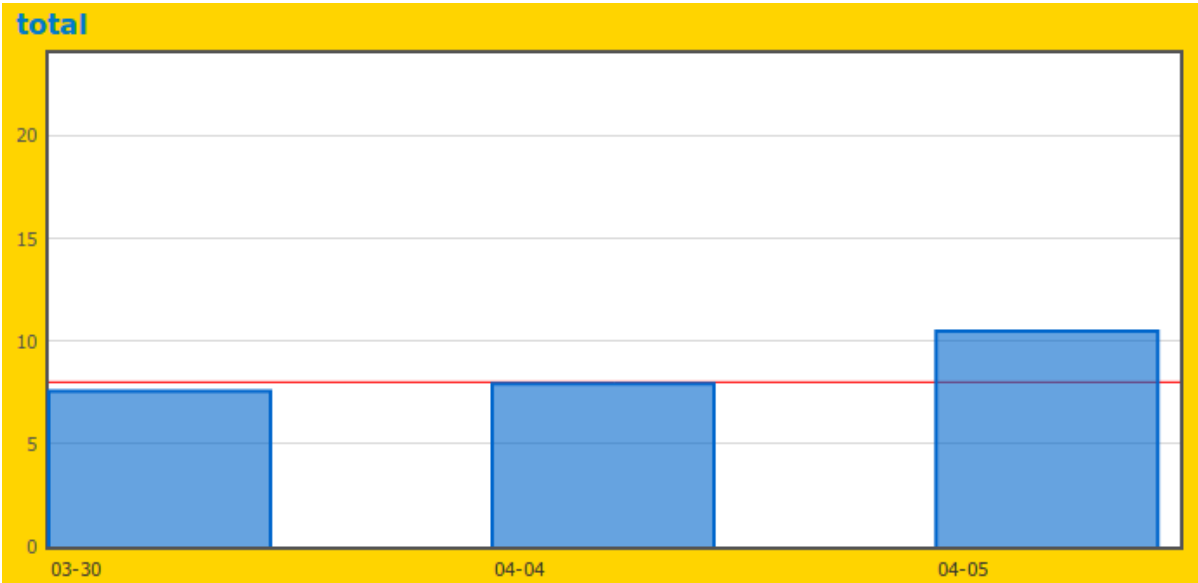
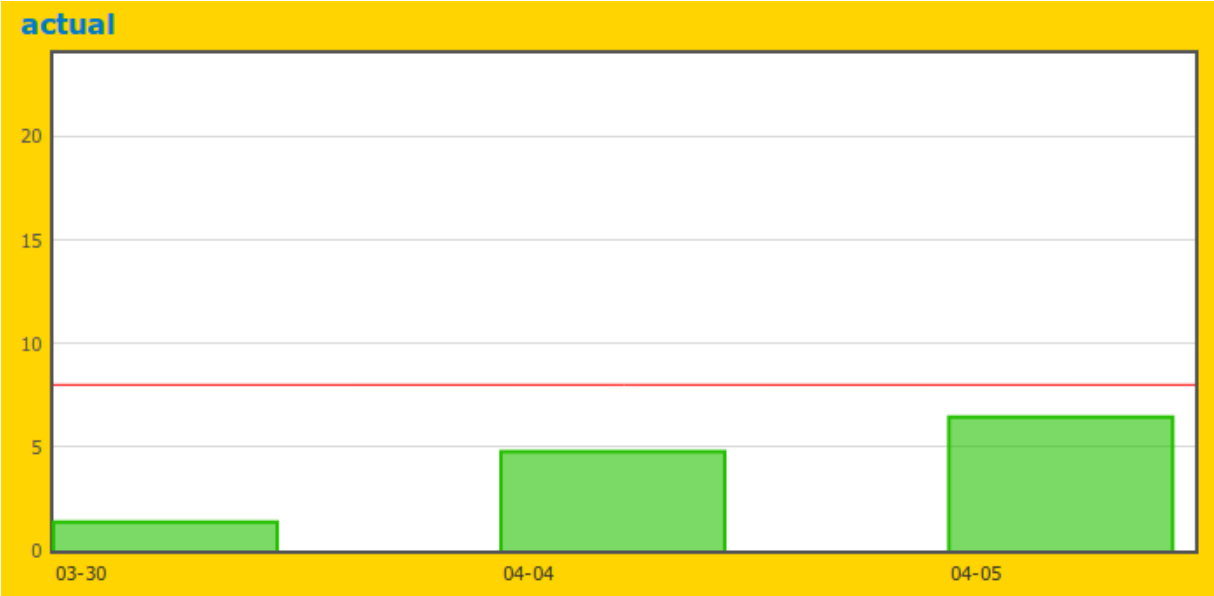


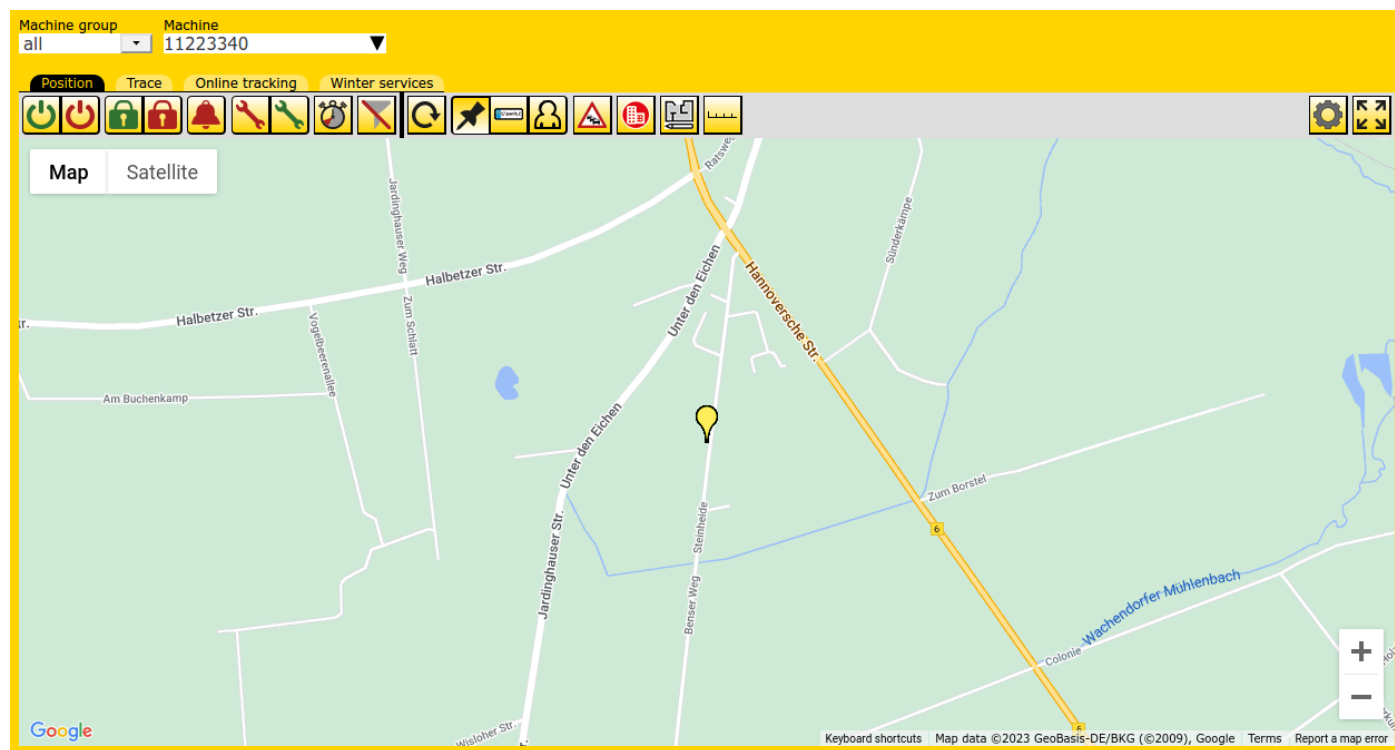
Diagram effective values:



## 4.1.3. Machine position

The icons from chapter 4.1.1. Machine overview can also be found on the following menu: Machine data → Machine position.

Selected icons reduces the machine displayed in the map to machines with correct properties.



In addition to the icons described above, the map also contains the following icons under Machine Position:

### Reload automatically :



To get allways the actual machine status in the map, the time for the refreshing must be installed at this position.

### Pins:



This icon is used to mark the exact position of every machine.

### License plates:



This icon is used to mark the exact position of every machine with the license plate.

To fill the license plate: Set up machine → Maschine parameters → Car registration.

## Key users:



If your company use Rfid keys, select this icon displays the actual machine users.

## Traffic situation:



Select this item to display actual traffic information. Useful to your vehicle in case of traffic jam.

## Add location:



You can use this icon to add a location to the map.  
You can choose between two symbols and give the place a name.

### Add placemark

Symbol

labeling

Abbrehen
Save

## Add building plan:



You can use this icon to insert building plans on the map.  
If you click on the symbol, you can place it on the map and the following window will open:

1. First align the map so that the building whose plan you want to insert is in full view. It is best if the edges of the area still have a good distance to the edge of the map.
2. Upload the floor plan as a PNG image. The image should be isolated on a transparent background.
3. Click Next and align the image. When you are happy with the result, confirm the correct orientation using the button at the bottom right of the map.

Name

file (png)
Keine ausgewählt



Measure distance:

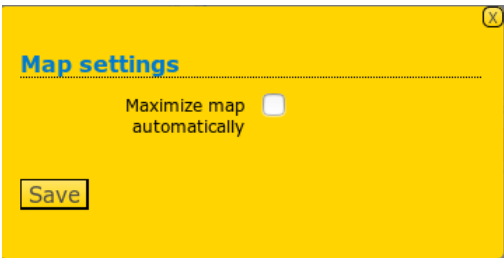


You can use this icon to measure distances between places/ machines within the map.  
For example, you can plan routes better.

Settings:



Select this icon displays the menu below:



Activate „Maximize map automatically“ to start allways with the map after login.

(Un)maximize:



Maximize or minimize the map manually.

Machines are displayed as pins. The meaning of the different pins is explained in the legend below the map. When moving the mouse over a pin the machine group, name and the time of the last position update are shown.

The legend provides an explanation of what the different pin and playing piece colors tell you about the state of the machine and the user, respectively.

description

-  Alert, reactivation needed
-  ATS inactive
-  ATS active
-  ATS not ordered

-  No group
-  Aufzüge
-  LKW
-  Gelenkteleskop
-  Mobilbagger
-  Radlader
-  Gabelstapler
-  Torsteuerung
-  Key

-  User logged in
-  Expect data
-  No user logged in
-  Not a key function

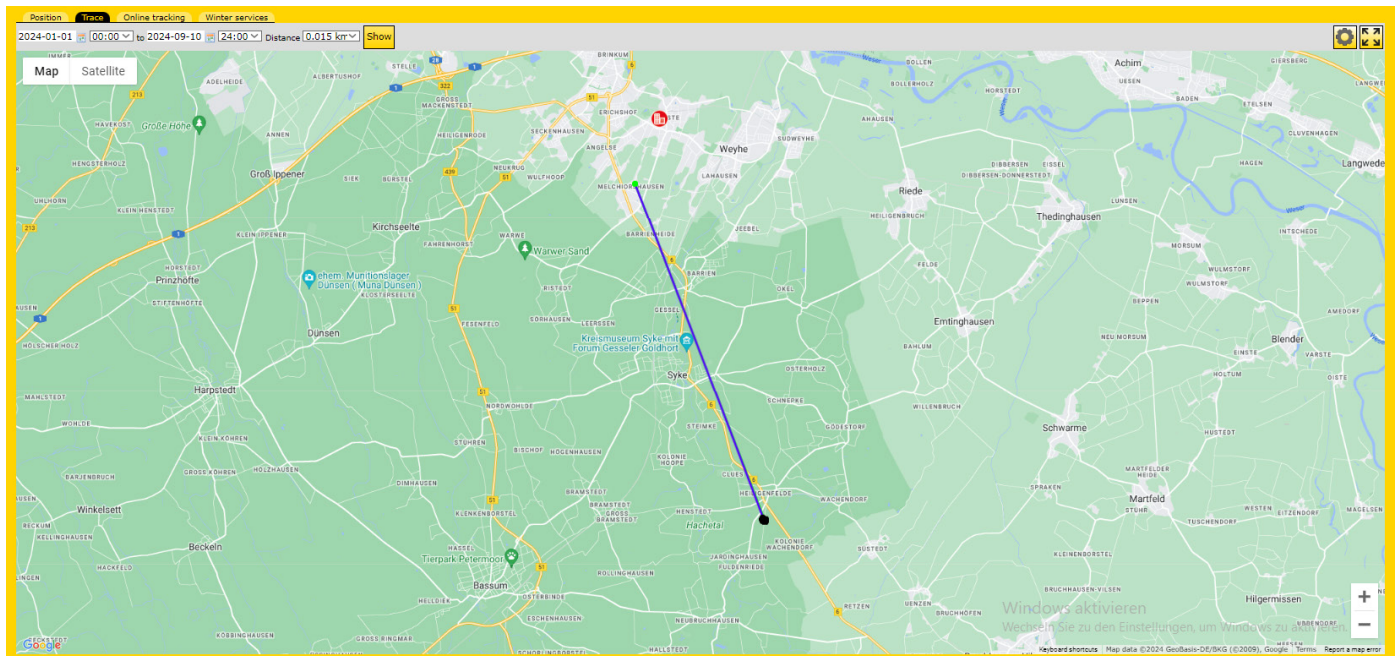
-  Obsolete position
- 
- 
- 



## „Trace“ tab:

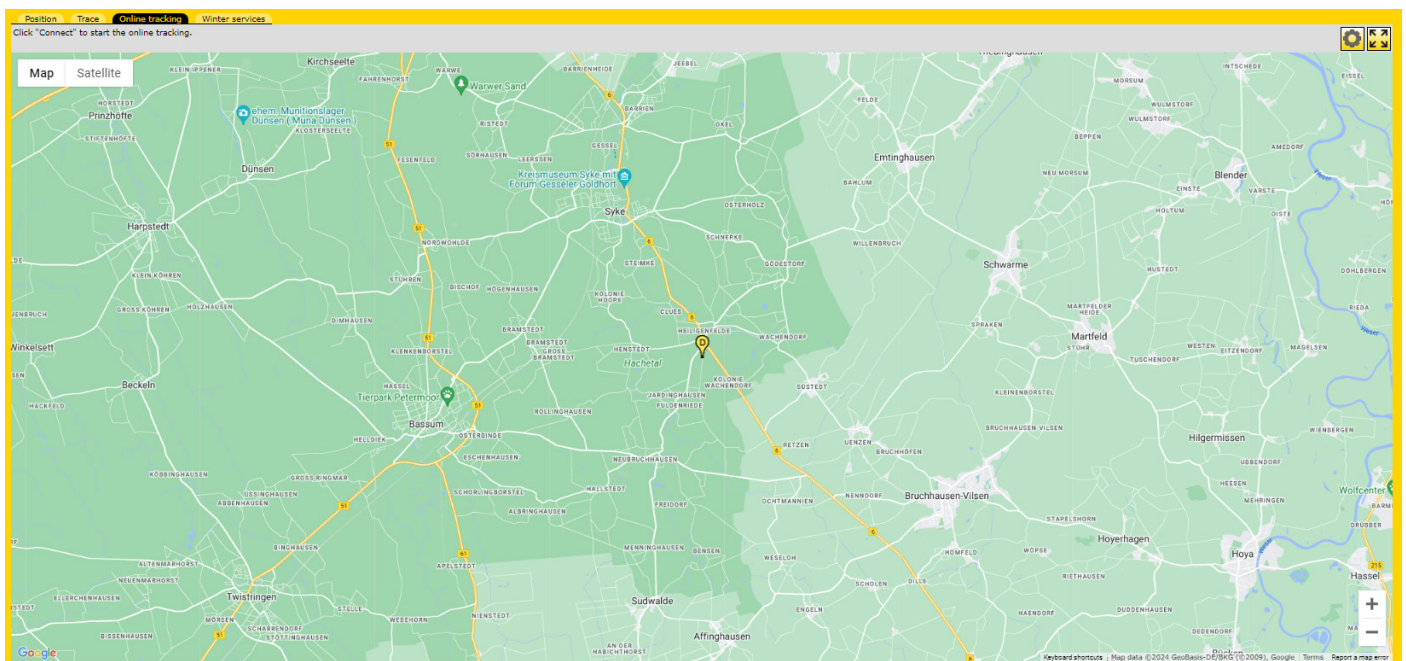
You can also select the „Track“ tab under the „Machine position“ menu item. This tab shows the route that a vehicle has traveled.

The data is transmitted from the device to the server every minute. The route of the vehicle can be followed live or days later for analysis (file “track”).



## „Online tracking“ tab

If you select the „Online tracking“ tab, you can connect to the machine you have selected and the current position of the machine will be displayed to you at a specified time interval. This is only possible if online tracking is enabled on your device. Please contact us to activate.





The special function can only be used via the portal. To use it Ruthman will provide you with a password. The special function can be used, for example, to change the height of the platform. This setting will not be changeable by the platform user. This is useful when you know in advance the specific height of the platform required by the customer because it then allows you to specify it in advance with the help of the special function.

When you need specific data from the machine you can use the search option to find it with the help of keywords and display it. Thereby avoiding to click through all the pages on the display of the machine.

## 4.1.6. Export

If you would like to save certain data of a machine on your computer you can use the „Export“ page.


First you need to select the desired machine and period. When selecting the latter, please keep in mind that the period cannot be too long because no more than 10,000 samples can be exported at once.

To change the export format you need to click on „Settings“. There you can change between Excel and CSV format. For the latter you can specify the delimiter, line endings and whether the individual values should be surrounded by parentheses. Please click on „Save settings“ to accept your changes.

For automatic data processing the CSV format is the better choice because it contains the data in a simple, tabular form whereas the Excel format provides more clarity.

Finally, you can click on one of the following buttons: Startzeiten, daily data, GPS data, Key data and machine list to save the corresponding data.

Thanks to the tank monitoring area, you always have the fill level of your machines in view. You can activate an alarm and specify in the settings at which level the alarm is triggered. You will receive the filling level warning by SMS.



Tank monitoring settings

Tank volume

100

level warning at %

25

Save

In the area of fuel consumption, you must first select a machine. A table with the tank data of the machine is then displayed. In the table, you can see when and how many liters the machine refueled. The mileage, operating hours and fuel consumption of the machine are also displayed. It can also be seen who was using the machine at that time.

## Fuel consumption

Machine group  
all

Machine  
0, 11110022, 11223340, ▼

from  
2022-11-0

to  
2023-12-1

Show

### Tankdaten

Uhrzeit	KFZ	Getankte Liter	Kilometerstand	Betriebsstunden	Verbrauch	Nutzer
46464646						
2022-11-27 17:32:10	-	1234	0	Kanal 1: 112:1 Kanal 2: 05:44	0.00L/100km	Kein Nutzer angemeldet

### Fahrtstrecken

Start	Stop	Distance
2023-01-20 20:00:23	2023-01-20 20:08:23	0.41
2023-06-16 17:23:47	2023-06-16 17:32:47	0.14
2023-06-16 18:14:47	2023-06-16 18:16:47	0.11
2023-04-28 11:06:28	2023-04-28 11:22:28	12.27

Durchschnittsverbrauch

Kilometersumme	12.95
Tanksumme	1234L

Map

Satellite

Keyboard shortcuts

Map data ©2023

Terms

© 2011-2025 Rösler SoftwareTechnik Entwicklungs und Vertriebsgesellschaft mbH, Germany



### 4.1.9. Service alerts

Every morning, an e-mail with the current alarms is sent to the stored email address, if there are any alarms. The current alarms can be viewed under Machine data -> Service alarms. When you acknowledge a service alarm, it no longer appears in the e-mail and is deleted from the overview. The time and the user of the acknowledgment are saved. An e-mail is only sent when there are one or more new alarms.

The service alarms are summarized in an email for each user to be alarmed.

### Service alerts

Machine group

Machine

all

Ruthmann Teleservice Test

Show

Machine	service	Alarm type	Alarm threshold	Current value	Acknowledge
Ruthmann Teleservice Test	TÜV	Operating hours Motor läuft	5000 h	38914 h	Acknowledge
	TÜV	Operating hours Channel 2	2500 h	13123 h	Acknowledge

### 4.2. Set up machine

The page is used to set up a Obserwando device on a new machine. You can also add additional Obserwando service options to a machine.

The page has the following subpages

„[Machine parameters](#)“, „[Device parameters](#)“, „[Automatic operation detection](#)“, [EQTrace-Click mode](#)“, „[Machine groups](#)“, „[Additional services](#)“, „[Service settings](#)“, „[Service log book](#)“ and „[Bluetooth-Passwords](#)“.

SET UP MACHINE
>> Machine parameters
Device parameters
Automatic operation detection
EQTrace-Click mode
Machine groups
Additional services
Service settings
Service log book
Bluetooth passwords

## 4.2.1. Machine parameters

You need to select a machine to view its parameters. After selection you will see an overview of the registered data. Possible data are the name, car registration and group of the machine. You can also upload a picture of the machine or delete an existing one. The picture should be provided in JPG format and it should not exceed a size of 2MB.

Further information you will see are the inputs and outputs of the machine with the corresponding names. If needed you can also add a description. Finally, you can select an IPAF category and click on „Save“. Setting the IPAF category is only relevant for devices which have an IPAF card. The card can be used to give a user access to several devices. The correct category for a given machine can be determined using a list provided by IPAF. The set category can be changed anytime and needs to be set for every new machine.

### Set up machine

Machine group
Machine

all
11223346
Show

---

Machine name
11223346

Car registration

Machine group
None

Upload new picture
Datei auswählen
Keine ausgewählt
(jpg, max 2MB)

Delete image
☐ Don't use any image for this machine

Label input 1

Label input 2

Label input 3

Label input 4

Label output 1

Description

IPAF category
None requ

Save

## 4.2.2. Device parameters

To view the parameters of a certain machine you need to select it first. Then you will see an overview of the registered data. You will then be able to determine when an automatic operation detection will be done. Additionally, you can specify the battery type. The parameters of the category „Automatic operation detection“ are „Voltage threshold motor runs“, „IMEI“, „Operating hours Eingang“, „Ladezyklen“ and „Recharge channel“. Please activate the category „Deep discharge notification“ first. Then you can enter the „Voltage“ and select the „User“. Finally, you need to click on „Save“ to save the entered data.

### Device parameters

Machine group
Machine
all
11223340
Show

load new data

---

Serial number
11223340

Operating hours Channel 1
198
☐
send new parameter

Operating hours Channel 2
151
☐
send new parameter

Invert channel 2
☒

Invert channel 3
☒

---

**Deep discharge notification**

activate
☐

Voltage
13.6

User
None

Send data

## 4.2.3. Automatic operation detection

In the „Automatic operating detection“ area, you can select what type of machine or motor it is.

### Automatic operation detection

Machine group
Machine
all
11223340
Show

---

**Automatic operation detection**

☒ keine
☐ Combustion engine "motor runs"
☐ Battery-driven machine "motor runs"

Save

## 4.2.4. EQTrace-Click mode

In this area you can set how often and when the position of your machine should be transmitted to Obserwando. Possible modes are:

- Deep sleep mode, no data acquisition only position acquisition in the adjustable period.
- Data recording via accelerometer, data transfer when movement stopps.
- Data recording via acceleration sensor with cyclic data transmission daily.
- Track recording at 15 minute intervals, data transmission once an hour when in motion.
- Track recording at 15 minute intervals and cyclic transmission once a day.
- Track recording, data transfer after movement stopps.
- Track recording at minute intervals, broadcast once an hour when there is movement Weekly status report.
- Track recording at minute intervals, broadcast every five minutes when there is movement. Weekly status report.

For a more detailed description of the individual modes, please click on „Help“ for the respective mode.

### EQTrace-Click mode

Machine group

all

Machine

11223342

Show

Show

---

**Modus**

<input type="radio"/> Deep sleep mode, no data acquisition only position acquisition in the adjustable period.	<a href="#">Help</a>
<input type="radio"/> Data recording via acceleration sensor with cyclic data transmission daily	<a href="#">Help</a>
<input type="radio"/> Data recording via accelerometer, data transfer when movement stopps.	<a href="#">Help</a>
<input type="radio"/> Track recording at 15 minute intervals, data transmission once an hour when in motion.	<a href="#">Help</a>
<input type="radio"/> Track recording at 15 minute intervals and cyclic transmission once a day.	<a href="#">Help</a>
<input type="radio"/> Track recording, data transfer after movement stopps	<a href="#">Help</a>
<input type="radio"/> Track recording at minute intervals, broadcast once an hour when there is movement. Weekly status report.	<a href="#">Help</a>
<input type="radio"/> Track recording at minute intervals, broadcast every five minutes when there is movement. Weekly status report.	<a href="#">Help</a>

Send data



## Theft Alarm

Every time, EQTrace click recognizes theft, an alarm message will be send. This happens independend of the installed setting.

### 4.2.4.1. Deep sleep mode, no data acquisition only position acquisition in the adjustable period

In deep sleep mode, the device wakes up at the intervals of the sending interval and sends a status message with GPS coordinates and battery voltage to the server. The sending interval begins when the battery charging process is completed.

With the help of the base interval and the multiplier you can set the exact sending interval.

## EQTrace-Click mode

Machine group  
all
Machine  
30000009
Show

---

**Modus**

- ☒ Deep sleep mode, no data acquisition only position acquisition in the adjustable period. [Help](#)
- ☐ Data recording via acceleration sensor with cyclic data transmission daily [Help](#)
- ☐ Data recording via accelerometer, data transfer when movement stopps. [Help](#)
- ☐ Track recording at 15 minute intervals, data transmission once an hour when in motion. [Help](#)
- ☐ Track recording at 15 minute intervals and cyclic transmission once a day. [Help](#)
- ☐ Track recording, data transfer after movement stopps [Help](#)
- ☐ Track recording at minute intervals, broadcast once an hour when there is movement. Weekly status report. [Help](#)
- ☐ Track recording at minute intervals, broadcast every five minutes when there is movement. Weekly status report. [Help](#)

---

**Send interval**

Basic interval  
Multiplier

5  
2

Days

Send data

#### 4.2.4.2. Data recording via acceleration sensor with cyclic data transmission daily

In this mode, as soon as the accelerometer detects movement, a time stamp for the start and end of the movement is saved. The stored data (status message) will be transmitted to the server at the “send time” you set. In addition, in this mode, a status message is sent once a day, regardless of whether movement has occurred. The sending interval begins when the battery charging process is completed.

### EQTrace-Click mode

Machine group

all

Machine

30000009

Show

Modus

☐ Deep sleep mode, no data acquisition only position acquisition in the adjustable period. [Help](#)

☒ Data recording via acceleration sensor with cyclic data transmission daily [Help](#)

☐ Data recording via accelerometer, data transfer when movement stopps. [Help](#)

☐ Track recording at 15 minute intervals, data transmission once an hour when in motion. [Help](#)

☐ Track recording at 15 minute intervals and cyclic transmission once a day. [Help](#)

☐ Track recording, data transfer after movement stopps [Help](#)

☐ Track recording at minute intervals, broadcast once an hour when there is movement. Weekly status report. [Help](#)

☐ Track recording at minute intervals, broadcast every five minutes when there is movement. Weekly status report. [Help](#)

Transmission time

time

18:00

Send data

#### 4.2.4.3. Data recording via accelerometer, data transfer when movement stopps

In this mode, as soon as the accelerometer detects movement, a time stamp for the start and end of the movement is saved. The stored data (status message) will be transmitted to the server at the “send time” you set.

## 4.2.4.4. Track recording at 15 minute intervals, data transmission once an hour when in motion

In this mode, data is collected as soon as the accelerometer detects movement. In addition, the GPS receiver is switched on every 15 minutes to determine the current position. The data will be sent after one hour. If there is no movement, no status messages are sent.

## 4.2.4.5. Track recording at 15 minute intervals and cyclic transmission once a day

In this mode, data is collected as soon as the accelerometer detects movement. In addition, the GPS receiver is switched on every 15 minutes to determine the current position.

All collected data is sent to the server once a day. The connection to the server is established regardless of whether movement has been registered. You can set the broadcast time in the Obserwando portal.

### EQTrace-Click mode

Machine group  
all

Machine  
30000009

Show

---

**Modus**

- ☐ Deep sleep mode, no data acquisition only position acquisition in the adjustable period. [Help](#)
- ☐ Data recording via acceleration sensor with cyclic data transmission daily [Help](#)
- ☐ Data recording via accelerometer, data transfer when movement stopps. [Help](#)
- ☐ Track recording at 15 minute intervals, data transmission once an hour when in motion. [Help](#)
- ☒ Track recording at 15 minute intervals and cyclic transmission once a day. [Help](#)
- ☐ Track recording, data transfer after movement stopps [Help](#)
- ☐ Track recording at minute intervals, broadcast once an hour when there is movement. Weekly status report. [Help](#)
- ☐ Track recording at minute intervals, broadcast every five minutes when there is movement. Weekly status report. [Help](#)

---

**Transmission time**

time 18:00

Send data

**4.2.4.6. Track recording, data transfer after movement stopps**

In this mode, data is collected as soon as the accelerometer detects movement. In addition, the GPS receiver is switched on every 15 minutes to determine the current position.

The data is sent to the server after the end of the movement is detected.

**4.2.4.7. Track recording at minute intervals, broadcast once an hour when there is movement + Weekly status report**

In this mode, if the device has registered movement, a status message with GPS coordinates is generated every minute. After an hour, all collected data will be sent to the server. Regardless of the movement, a status message is sent once a week.

**4.2.4.8. Track recording at minute intervals, broadcast every five minutes when there is movement + Weekly status report**

In this mode, if the device has registered movement, a status message with GPS coordinates is generated every minute. After 5 minutes, all collected data will be sent to the server. Regardless of the movement, a status message is sent once a week.

**4.2.5. Machine groups**

If you have a lot of machines in use, it makes sense to divide these machines into groups. In the daily data views etc. only machines from a previously selected group are then displayed.

On this page you can create a group name and group abbreviation for the pins in the map view. You can assign an individual machine to a group under the “Machine parameters” sub-item of the “Set up machines” menu item.

Machine group

Group name	Group abbreviation
Aufzüge	A
LKW	L
Gelenkteleskop	G
Mobilbagger	M
Radlader	R
Gabelstapler	S
Torsteuerung	T
Key	K

Add new machine group

If you want to create a new group, click the Create New Machine Group button.  
The following page opens:

## Edit machine group

Group name

Group abbreviation

none

back

delete

save

4.2.6. Additional services

When it comes to bookable services, a distinction is made between services for the individual machine and services for the portal.

When you are in the Devices section, you can view a machine or group of machines. You will then receive an overview of the hardware and functions that can be booked.

For the hardware, the table shows you the categories “existing” and “available” as well as the price per piece.  
All services that have already been booked are displayed under “Existing”.  
The “Available” category displays services that you can book using the “Buy” button.

In the “Functions” table under “Status” you can see which of the available “services” you have “booked” and which “have not booked”. For “unbooked” services there is a “Book” button under “Promotion”.  
If you would like to book a function, you must click on the “Book” button.  
The price of the features is shown in the table per month.

## Additional services

Geräte

Portal

Machine group

all

▼

Machine

11223340, 11223340

▼

Show

### Hardware

Komponente	existing	available	Price per piece, singular	
digital inputs	3	0	€25.00	
outputs	1	0	€35.00	
Shock sensor	No	Ja	€35.00	Buy

### Functions

Service	Status	Price per month	Aktion
Theft protection	inclusiv		
Service log book	inclusiv		
Machine service	inclusiv		
Winter services	not booked	5.00	book

In the “Portal” area, a table shows you all the services that you can book for the portal. In the “Status” category you can see whether a service is “booked” or “not booked”. You can use the “Promotion” category to book functions that have not yet been booked using the “Book” button. The price is displayed per month.

## Additional services

Geräte

Portal

Service	Status	Price per month	Aktion
Data export	not booked	35.00	book
Machine service portal connection EQTrace OPT	not booked	35.00	book

## 4.2.7. Service settings

The service settings page lets you define the maintenance intervals for a machine such as oil change, UVV or TUEV.

When the box „aktualisieren“ is checked the server will automatically send a notification to the specified user when the service date has been reached.

To save the data, please click on „Save“.

### Service settings

Machine group
all
Machine
Stapler 1
Show

uvv

Remove service

type	Thresholds	delete
Operating hours Motor läuft	20000 h X +	X

Date
Add

Add service

Notification

User
- non -

Speichern

**Important:** Don't forget to save the changes, otherwise all entries will be lost!



4.2.8. Service log book

The page „Service log book“ provides an overview of all inputs which have been created for a specific machine. You can also create a new log to e.g. inform you colleague about a malfunction of the machine during your working time. It is also possible to upload picutre of e.g. damages of a machine or circuit diagrams. The service log books are also available in the „Obserwando mobile“ app.

Service log book

Machine group

Machine

Search criterion

all

11223350

Show

New log

Demo Account, 08/12/2023 11:04

Photos of the damage

Detailed damage assessment

Edit

Demo Account, 08/12/2023 11:03

Obserwando Documentation

A detailed documentation of the Obserwando portal

Machine\_overview.pdf (207 kB)

4.2.9. Bluetooth passwords

Bluetooth passwords

Enter the passwords line by line here.

passwords

AAA

BBB

CCC

Save

Here you can set the passwords for the Obserwando app.

4.3. Key functions

If the „Obserwando“ device is equipped with an eletronic key reader to prevent damages and unauthorized use you also need a key reader for your PC to create new keys. The page „Key functions“ has the following subpages: „[Evaluation by user](#)“, „[Evaluation by machine](#)“, „[User keys](#)“, „[Key access](#)“ and „[Master key](#)“.

KEY FUNCTIONS
» Evaluation by user
Evaluation by machine
User keys
Key access
Master key



## 4.3.1. Evaluation by user

On the page „Key usage by user“ you can select a user and period. Then you will see an overview of which machines the user has used and for how long. The period can be set to several days, weeks, months or years.

**Key usage by user**

User:  from:  to:

IFM Brinkum Load data Successful 05/04/2017 11:21

Machine	Date	Start	Stop	Sum	
13040500	9 Apr 2014	15:09	15:10	00:01	▼
13040500	10 Apr 2014	12:52	16:53	04:01	▼
13040500	10 Apr 2014	16:53	20:53	04:00	▼
13040500	10 Apr 2014	20:53	23:59	03:06	▼
13040500	11 Apr 2014	00:00	04:00	04:00	▼
13040500	11 Apr 2014	04:00	08:00	04:00	▼

## 4.3.2. Evaluation by machine

The page „Key usage by machine“ shows who has used a selected machine for how long during a specified period.

**Key usage by machine**

Machine group:  Machine:  from:  to:

Bauaufzug Load data Automatic repetition 07/04/2017 12:22  
Bauaufzug Load data Automatic repetition 07/04/2017 12:23

User name	Key number	Date	Start	Stop	Sum	
Gast2, Gast2	000F037B771C1C40	7 Apr 2014	12:19	12:21	00:02	▼
Gast2, Gast2	000F037B771C1C40	7 Apr 2014	12:41	12:42	00:01	▼
Gast2, Gast2	000F037B771C1C40	7 Apr 2014	12:42	12:43	00:01	▼
Gast2, Gast2	000F037B771C1C40	7 Apr 2014	12:43	12:44	00:01	▼
Gast2, Gast2	000F037B771C1C40	7 Apr 2014	13:02	13:03	00:01	▼
Gast2, Gast2	000F037B771C1C40	8 Apr 2014	10:23	10:24	00:01	▼

### 4.3.3. User keys

The page „User keys“ allows to the creation of new users and keys as well as the editing of already existing users and keys.

To see all keys assigned to a user you need to enter the name and click on „Show“.

To edit the user please click on „Benutzer bearbeiten“.

Click on „Add new user“ or „Add new key“ to create a new user or key, respectively.

**User keys**

**Keys handed out to ACC9, test**

Key number	Machines	Aktion
0000007F0091ACC9	20005245, 20003054	<input type="button" value="Retract"/>

freigegeben — zur Freigabe vorgemerkt — zur Sperrung vorgemerkt

[Add new user](#)  
[Add new key](#)  
[Delete key](#)

After clicking on „Add new user“ the following dialog will appear.

**Add key user**

First name

Last name

Mobile phone

IPAF PAL-Card☐

You have to enter the first and last name as well as the mobile number of the user. It should also be specified whether the user has an IPAF card.

Then click on „Save“.

The following dialog will open when clicking on „Add new key“:

Please enter the number of the key and click „Save“.

**Create key**

Key number

Afterwards you need to combine user and key

## User keys

Gast, Gast

### Keys handed out to Gast, Gast

There's no key handed out to the user.

00010D156FA3D540

[Add new user](#)  
[Add new key](#)

To assign a key to a user, first select the user you want to assign under „User Keys“ and then select the appropriate key in the field next to „Hand out“. Then click „Hand out“.

## 4.3.4. Key access

The page „Key access“ shows which key of which machine an individual user or a group of users has as well as the status of the key. You can also lock a key by first checking the corresponding box in the rightmost column and then clicking on „Lock“. This function is important in case a key gets lost or is stolen. Locking a key prevents the use of the machine by unauthorized people.

## Key access

User: ACC9, test Group: all

Machine	Status	Start date/Start time	Stop date/Stop time	Lock
20003054	Assigned	-	-	<input type="checkbox"/>
20005245	Marked for assignment	-	-	<input type="checkbox"/>

Machine	Status	Start date/Start time	Stop date/Stop time	Assign
11223341	Locked	×	×	<input type="checkbox"/>
11223347	Locked	×	×	<input type="checkbox"/>
11223348	Locked	×	×	<input type="checkbox"/>
MRT2550 (3238)	Locked	×	×	<input type="checkbox"/>
21116347	Locked	×	×	<input type="checkbox"/>
31111111	Locked	×	×	<input type="checkbox"/>
33001377	Locked	×	×	<input type="checkbox"/>
WLAN39	Locked	×	×	<input type="checkbox"/>
825836080	Locked	-	-	<input type="checkbox"/>
Stapler 1	Locked	-	-	<input type="checkbox"/>
MB4-L	Locked	-	-	<input type="checkbox"/>
Torsteuerung	Locked	-	-	<input type="checkbox"/>
GT5484+	Locked	-	-	<input type="checkbox"/>



## 4.4.1. Alarm messages

The page „ATS messages“ shows all current and old ATS messages.

Via the button „update“ you can update the displayed data. When an alarm is reported the involved machine, the alarm type and the time when the alarm was triggered will be displayed. After you have read the machine you can mark it as read by clicking on „read“. You also need to reactivate the alarm function by clicking on „reactivate“. If you don't reactivate the alarm you will not receive any new alarm messages. You can deactivate the alarm function for new and old messages by clicking the „deactivate“ button. Outdated messages can be deleted by clicking on „delete“. The background of a new message will be red and of a read message white.

ATS messages						
<button>update</button>						
Machine	message	time	read message	Reactivate alarm	Deactivate alarm	delete message
L703	machine outside work area	2017-04-04 11:43:00	<button>read</button>	<button>reactivate</button>	<button>deactivate</button>	<button>delete</button>
JLG Diagnose	machine outside work area	2017-01-13 23:29:57			<button>deactivate</button>	<button>delete</button>

## 4.4.2. ATS settings

Go to the menu item “ATS Settings” and the following page will open. Here you can make your settings.

ATS settings

?

Help

Machine group all Machine 11223340 Choose

General

☐ activate monitoring

Settings

☒ Automatically update centre of rest and work area at the end of a route

Rest area monitoring

Mon to 06:00 o'clock and again from 18:00 o'clock

Tue to 06:00 o'clock and again from 18:00 o'clock

Wed to 06:00 o'clock and again from 18:00 o'clock

Thu to 06:00 o'clock and again from 18:00 o'clock

Fri to 06:00 o'clock and again from 18:00 o'clock

Sat up 00:00 o'clock to 24:00 o'clock

Sun up 00:00 o'clock to 24:00 o'clock

work area

radius 10 km

Keep the old center of the workspace

For transmitting, set workspace center based on last submitted location

Manually select the new center point of the workspace

Manual selection

Google

Map Data Terms Report a map error

Big map

Transmit

In the “ATS Settings” area you can first select a machine. Under the sub-item „General“ you can activate monitoring for the selected machine by checking the box next to „Activate monitoring“ and also set the rest and work area center to be automatically updated at the end of a route. To do this you must also check the box next to this point.

It is important that you activate this point, otherwise the area that the machine is currently in may not be monitored, but the area that it was in when it was last updated.

In the “Rest area monitoring” area you can enter the idle times of the machine. The machine is not used during this time.

In the Monitor Work Area section, you can set the radius within which the machine’s work area should be monitored. You can also specify what exactly should be shown on the map. You can choose to „Keep the old center of the workspace“, „For transmitting, set workspace center based on last submitted location“ or „Manually select the new center point of the workspace“.

Finally, you must save the set data.

4.4.3. Shock sensor

In this area you can see when the shock sensors on a machine have registered a shock. You will be shown when the shock occurred, which shock level was reached, how many events there were in the acquisition interval and who operated the machine.

Schocksensordaten

Machine group

all

Machine

21116347

from

2019-10-0

to

2020-10-0

Show

Time	Schock-Level	Anzahl der Ereignisse im Erfassungsintervall	Key users
25 Mar 2020 11:05	1.77	1	-
25 Mar 2020 11:01	1.05	2	-
25 Mar 2020 10:54	0.44	1	-
25 Mar 2020 10:37	1.73	2	-
19 Feb 2020 12:52	0.5	1	-
19 Feb 2020 12:48	0.36	1	-
19 Feb 2020 12:47	1.17	1	-
19 Feb 2020 12:41	2.55	3	-
18 Feb 2020 12:56	0.88	1	-
5 Nov 2019 12:53	2.98	8	-
30 Oct 2019 11:10	1.63	2	-
30 Oct 2019 11:08	1.63	2	-
30 Oct 2019 10:46	1.73	2	-
30 Oct 2019 10:45	1.84	1	-
30 Oct 2019 10:43	1.52	2	-
30 Oct 2019 10:41	2.31	1	-
30 Oct 2019 10:21	0.84	1	-

4.4.4. Set up shock sensor

In the „Set up shock sensor“ area, you can activate and configure the shock sensor. You can define the measuring range, the evaluation threshold, the peak threshold and the minimum duration.

# Shock sensor settings

Machine groupMachine

all11110022Show

General

☐ Activate shock sensor

Configuration

Measuring range

±2G

Evaluation threshold

20

1-128

Peak threshold

20

1-128

Minimum duration

30

1-2550 ms

Send data

Last calibration: Never before.

Calibrate now

#### 4.4.5. Notification

On the page „Notification“ you can select of which machine and customer you would like to see the SMS notification settings.

You can enable “SMS notification” and/or “Email”.

Additionally, you can select during which period, on which weekdays and during which time the function is active. To select a weekday you need to check the corresponding box behind it. By checking the second box you can specify the time on the corresponding weekday during which notifications will be sent.

Finally, you need to save the entered data.

## Notification

Machine group  Machine  User

activate.....

Activate SMS notification ☐

Email ☐

Period.....

from  to

Days.....

<input checked="" type="checkbox"/> Monday	<input type="checkbox"/> but not	up	00:00	<input type="text"/>	to	24:00	<input type="text"/>
<input checked="" type="checkbox"/> Tuesday	<input type="checkbox"/> but not	up	00:00	<input type="text"/>	to	24:00	<input type="text"/>
<input checked="" type="checkbox"/> Wednesday	<input type="checkbox"/> but not	up	00:00	<input type="text"/>	to	24:00	<input type="text"/>
<input checked="" type="checkbox"/> Thursday	<input type="checkbox"/> but not	up	00:00	<input type="text"/>	to	24:00	<input type="text"/>
<input checked="" type="checkbox"/> Friday	<input type="checkbox"/> but not	up	00:00	<input type="text"/>	to	24:00	<input type="text"/>
<input checked="" type="checkbox"/> Saturday	<input type="checkbox"/> but not	up	00:00	<input type="text"/>	to	24:00	<input type="text"/>
<input checked="" type="checkbox"/> Sunday	<input type="checkbox"/> but not	up	00:00	<input type="text"/>	to	24:00	<input type="text"/>



4.4.6. BLE lost devices

This page lists all the devices that you have reported lost. If you have not reported a device as lost, you will see the following page.

BLE lost devices

Update

No lost BLE devices were found.

4.5. Tour

On the „Tour“ page you can find an overview of the finished tours of a machine. It has the following subpages „[Report \(no edit\)](#)“, „[edit](#)“ and „[Report](#)“.

TOUR

>> Report (no edit)

edit

Report

4.5.1. Report (no edit)

On the „Report“ page you can show a specific machine for a certain period. A tour list will be shown providing information about the start and end time of a tour, the covered distance as well as the destination. If needed the list can be printed. The tour with its start and destination will also be shown on a map.

Tour report

Machine group

Machine

from

to

Show

all

LL703

2017-04-04

2017-04-04

Start	Stop	Distance	Destination
4 Apr 2017 09:18	4 Apr 2017 11:50	205.1	E22 18195 Grammow DE
4 Apr 2017 12:42	4 Apr 2017 14:07	89.8	Hafenstraße 9 17440 Kröslin DE

print report

Map

Satellite

Map data ©2017 GeoBasis-DE/BKG (©2009), Google Terms of Use Report a map error



## 4.5.2. Edit

On the „Edit“ page you can create tour reports. First you need to select machine to see the start and end of the driven tour. Then you can complete the table. You can specify the km status at the tour end, the driver, the destination, the purpose of the tour and whether the tour was professional or not. Finally, you need to click on „Save“.

**Tour report**

Machine group:  Machine:

Start	Stop	Km at destination	Driver	Destination	Trip / Customer	Professional	
1 Jan 2000 01:00	1 Jan 2000 01:00	<input type="text" value="68713.29"/>	<input type="text" value="Demo Acco"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="button" value="Save"/>
4 Jan 2022 19:23	4 Jan 2022 19:28						
14 Mar 2024 14:15	14 Mar 2024 14:47						
14 Mar 2024 16:27	14 Mar 2024 18:00						

## 4.5.3. Report

On the „Tour report“ page you need to select a machine and period to see the km status before and after the last tour. Additionally, it will be displayed how many kilometers have been driven professionally. The individual tours of the machine will be shown in a table. This is the table which you can complete on the „Edit“ page. On this page you can view and print the table.

**Tour report**

Machine group:  Machine:  from:  to:

Km-Stand Start	0
km at destination	807.42
Kilometer beruflich	792.84

Start	Stop	Distanz / km	Driver	Destination	Trip / Customer	Beruflich
11 Jul 2014 14:47	11 Jul 2014 14:49	0	Gast			no
5 Sep 2014 16:48	5 Sep 2014 16:52	0	Gast			no
7 Sep 2014 20:11	7 Sep 2014 20:15	2.7	Gast			yes
8 Sep 2014 06:29	8 Sep 2014 06:31	1.85	Gast			yes
8 Sep 2014 09:08	8 Sep 2014 17:10	575.41	Gast			yes
8 Sep 2014 19:15	8 Sep 2014 21:48	212.88	Gast			yes
8 Sep 2014 23:20	8 Sep 2014 23:38	14.58	Gast	456464		no

## 4.6. Master data

This page allows you to view and edit your own data.  
As the main user you will also be able to create and activate further user for the „Obserwando“ portal.  
The page „Master data“ has the following subpages:  
„[Customers](#)“, „[Address](#)“, „[Users](#)“ and „[Password](#)“.

MASTER DATA
>> Customers
Address
Users
Password

### 4.6.1. Customers

On the „Customer“ page a tabular overview of the existing customer data is provided.  
  
Example customer:

Address							
Customer no	Name	Extra address line	Street/P.O.B.	Postal code	City	Country	disabled?
80808	Demo Account 2		Steinheide 36	28857	Syke-Heiligenfelde	DE	no

### 4.6.2. Address

On the „Address“ page you can edit the previously inserted data.  
  
Example customer:

Demo Account 2

Customer number

80808

Name

Demo Account 2

Extra address line

Street/P.O.B.

Steinheide 36

Postal code/City

28857

Syke-Heiligenfelde

Country

Germany

email-address (Invoices)

xxx@yyy.de

VAT

back

Save

## 4.6.3. Users

On this page the main user can create, activate and edit as many users as needed.

Overview of the existing users:

**Administrate users**

Search:

Last name	First name	User name	Phone	disabled?
Demo User	-	demokey		no

By clicking on „create new user“ you can add a new user.  
The following dialog will open:

**New User**

First name

Last name

User name

Password

repeat password

phone

send ATS acknowledgment SMS ☐

Landline number

E-mail

language

number of pagination list entries

disabled ☐

set default credentials? ☒

If you click on a user that has already been created, you will see that when you create a new user, the item “Set default rights” has changed to “Permissions” below. By clicking on “change” you can change the permissions of the individual user. Provided that you checked the box next to “Default rights” when you created the user.

**User: Demo Account**

First name

Last name

User name

Password

repeat password

phone

send ATS ☐

acknowledgment SMS ☐

E-mail

language

number of pagination list entries

disabled ☐

Access rights [change](#)

If you want to change the user's permissions, you must click on „change“.  
You can activate the following permissions for the individual user:

**Access rights for Demo Account**

**Unlocked modules:**

- ☒ Beschleunigung
- ☒ all maschine groups
- ☒ Bluetooth upload
- ☒ Device settings
  - ☒ Invert outputs
- ☒ Query options treatment
- ☒ Edit your own user data
- ☒ Manage users and permissions
- ☒ Fuel consumption
- ☒ view alarms
- ☒ Alarmeinstellungen
- ☒ view requests
- ☒ create requests
- ☒ edit ATS-messages
- ☒ order features
- ☒ Tour report
- ☒ view maps
- ☒ view own customer
- ☒ edit own customer
- ☒ edit machine log book
- ☒ edit machine groups
- ☒ view machine status
- ☒ edit key functions
- ☒ edit service settings
- ☒ view daily data
- ☒ use exportfunction daily data
- ☒ view remote diagnostics
- ☒ Online shop
- ☒ Key release
- ☒ Map
- ☒ soap access

By clicking on the checkbox before an individual point you can check or uncheck it. This way you can grant or withdraw individual access rights for the current user.

no tick: The machine groups to which access is permitted can be selected using the “Select” button.

## Access rights for Demo Account

Unlocked modules.....

- ☒ Beschleunigung
- ☐ all maschine groups  
Select ...
- ☒ Bluetooth upload
- ☒ Device settings
  - ☐ Invert outputs
- ☒ Query options treatment
- ☒ Edit your own user data
- ☒ Manage users and permissions
- ☒ Fuel consumption
- ☒ view alarms
- ☒ Alarmeinstellungen
- ☒ view requests
- ☒ create requests
- ☒ edit ATS-messages
- ☒ order features
- ☒ Tour report
- ☒ view maps
- ☒ view own customer
- ☒ edit own customer
- ☒ edit machine log book
- ☒ edit machine groups
- ☒ view machine status
- ☒ edit key functions
- ☒ edit service settings
- ☒ view daily data
- ☒ use exportfunction daily data
- ☒ view remote diagnostics
- ☒ Online shop
- ☒ Key release
- ☒ Map
- ☒ soap access

back Save

## 4.6.4. Password

In this area you can change the password of your Obserwando account.

## Change password

Password

Repeat password

Ändern

## 4.7. Order online

When clicking on „Order online“ a new tab will open showing the online shop of the company „Rösler Software-Technik Entwicklungs- und Vertriebsgesellschaft mbH“. There you can view and order all for „Obserwando“available devices.



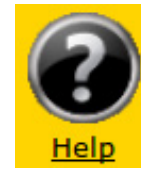
## 5. Logout

You can logout anytime by clicking on the „Logout“ button at the top left in the header



## 6. Contact and help

On some pages you can find a „Help“ button.  
It can be used to display additional information about  
the current page as well as the available options and  
symbols.



Do you need help or have a question?  
Then you can reach us at the following contact details:

**Rösler SoftwareTechnik Entwicklungs- und Vertriebsgesellschaft mbH**

Phone: +49 (0) 421/8022700

E-Mail: [info@minidat.de](mailto:info@minidat.de)

[www.minidat.de](http://www.minidat.de)