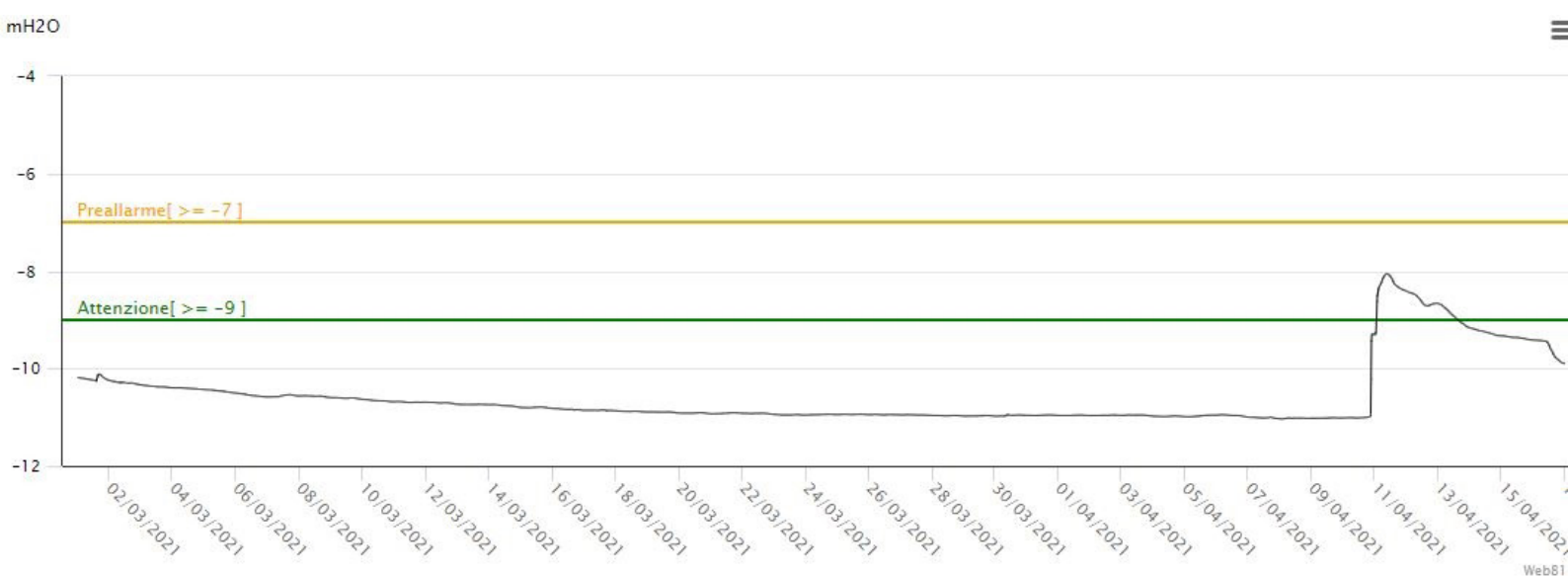
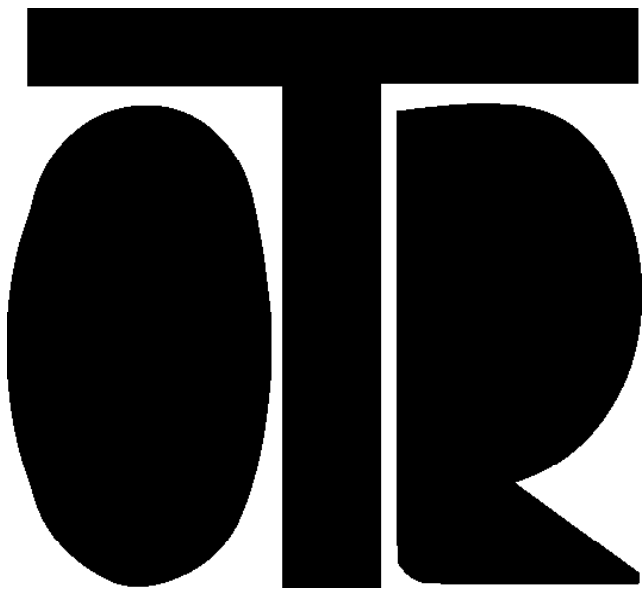




OtrMonitoring



STRUMENTI E MISURE GEOTECNICHE
E STRUTTURALI

INDEX

Warnings	5
Applications	6
General Architecture	7
Identification	8
Description	9
Service’s Access	10
Login	11
Side Bar	12
Costumer Info	13
Zone	14
Datalogger	16
Charts	18
Charts’ Functions	22
Printouts’ Functions	26
Other Functions	31



OTRmonitoring



WARNINGS



The service must be used only for the purpose which it was built and designed. OTR declines all responsibility for improper use of the service;



Don't communicate your login credentials to third parties;



Don't leave your computer unattended while you are connected to the service with your credentials;



For any information contact the manufacturer;



Alerts about threshold exceeding can be issued hours after dataloggers actually recorded data.



Do not rely your personal or other people's safety on the assumption that alerts are issued immediately. Maximum delay for alert issuing is not guaranteed.
OTR declines any responsibility for any action or procedure based on a maximum time of issue of alerts.

Applications

OtrMonitoring service is thought to manage: geotechnical, structural and enviromental monitoring.

The service is expetially used when the datas acquired should be sent remotly to the users.

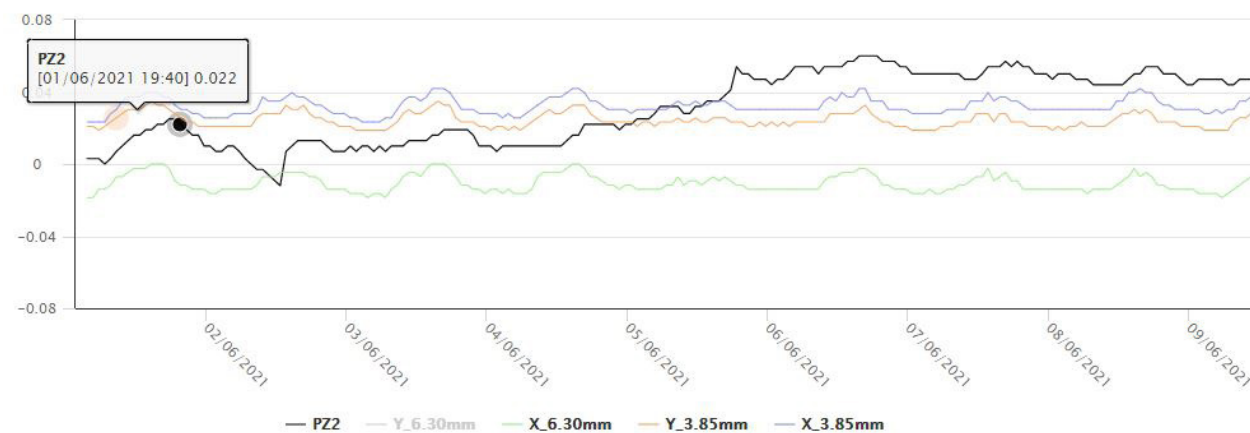
OtrMonitoring is needed when one or more of this reason rise above:

- Acquisition data units, next to the monitoring site, are difficult to reach manually to download datas,
- The sites are far to the main headquarters,
- Is needed to often consult the datas acquisition,
- Is needed a timely consulting of datas if an allarm threshold is overcome,
- You want create automatically graphics and plots,
- You want monitor the datas, storical too, using filters,
- OtrMonitoring sistem wants to make this activity much more easy, bracking limits, difficulties and costs of datas' manually consulting and managing.

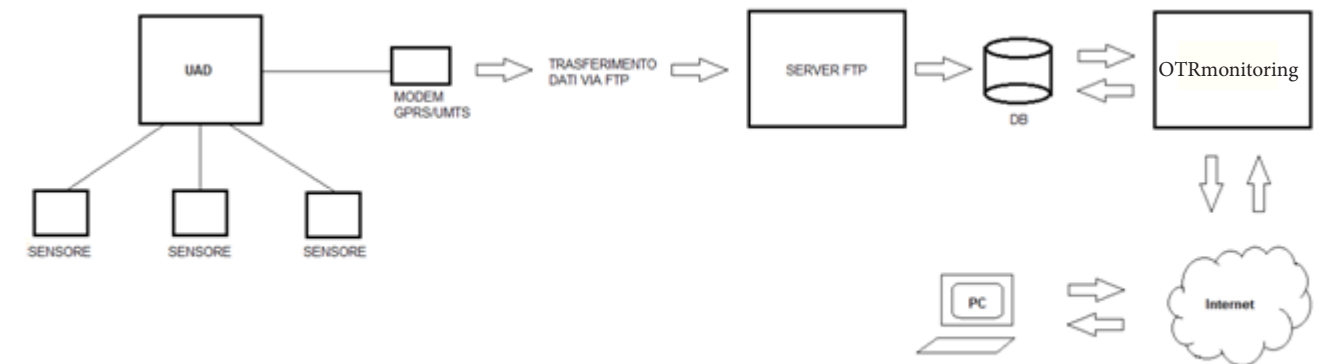
OtrMonitoring is configured by OTR in order to allow users to easily access the data they need.

OTRmonitoring service acts like a data collection server and allows the users, through his own browser, to: view the collected data, filter them, represent them in a graphical or tabular way, view maps and attachments, georeference the data acquisition units, monitor thresholds and manage the exceeding of these thresholds by sending emails, vocal messages or SMS.

Many factors may influence the delay between actual data collection on field and their elaboration by the server, as well as the issuing of any alert. OTRmonitoring is not to be considered a real-time alerting service, but a useful tool for data consultation and visualization.



General Architecture



OTRmonitoring service is shaped from OTR to allow the users to login safaty and easily to their datas.

Acquisition data units (UAD), from which are connected the monitoring sensors, should reach the portal from every part of the word where there's a GSM/GPRS/UMTS network sending the acquisition data to a dedicated FTP server.

Datas, FTP trasmitted, are trasfered to a SQL database server. A Web Application will try to access to the database to query the data, list the additional informations like: attachments and photography, users management and alarm thresholds.

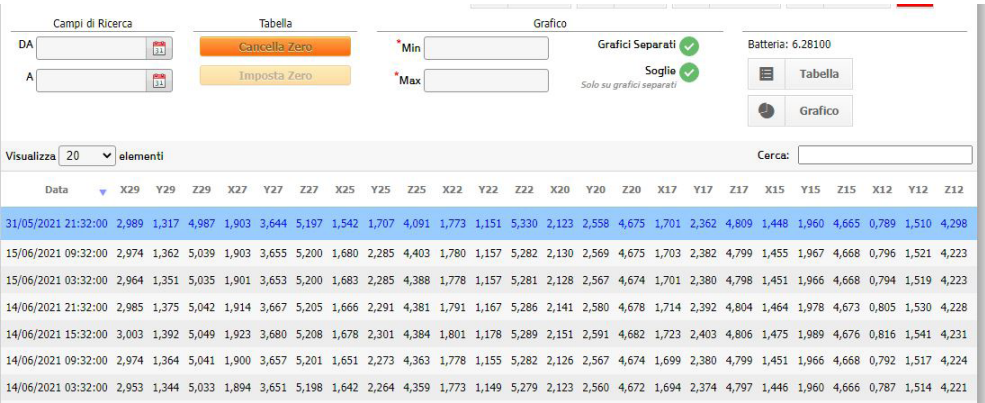
The obtained information are published on internet page www.otrmonitoring.it, accessible from any browser, protected by logi credentials. There aren't other softwares needed on the PC to make OTRmonitoring run. Datas are stored from a professional Software Hause on a server with many copies and safaty levels.

Identification

The currently installed version of OTRmonitoring is ...

Technical Features

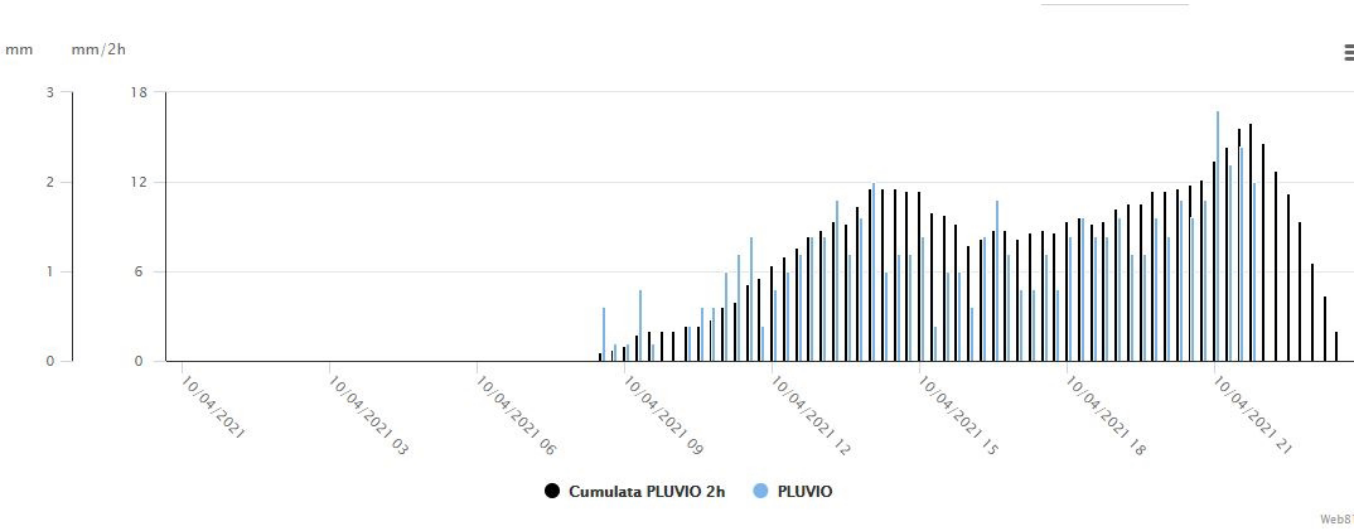
Web Server	S.O. Linux
Web Application	PHP Language
Datas' Upload	FTP, ASCII
Datas' Download	Tabular format: CSV file for import into MS Excel Graphic format: PDF file
User Management	Multiple
Alarm threshold management	Multiple
Alarms' management	Email SMS Vocal messages



Description

On www.otrmonitoring.it web page using a log in and a password you can acced to your own portal.
The most important operation guranteed are:

- Viewing tables and graphs of the monitoring parameters mesured,
- Controlling sensors and periods,
- Viewing in real-time sensors' position on planimetric diagrams or images and highlithing allarms,
- Viewing plant diagrams of the monitoring implant made up,
- Creating and downloading graphics
- Exporting tabular datas on spread sheets,
- Indicating dataloggers' battery level,
- Indicating failed transmissions,
- Setting up alert thresholds and allarms, for every single sensor, and sending emails, SMS to the contacs agreeded and vocal messages when a threshold is overcome,
- Georeferencing dataloggers,
- Graphicating inclinometers chain,
- Graphics and istograms.

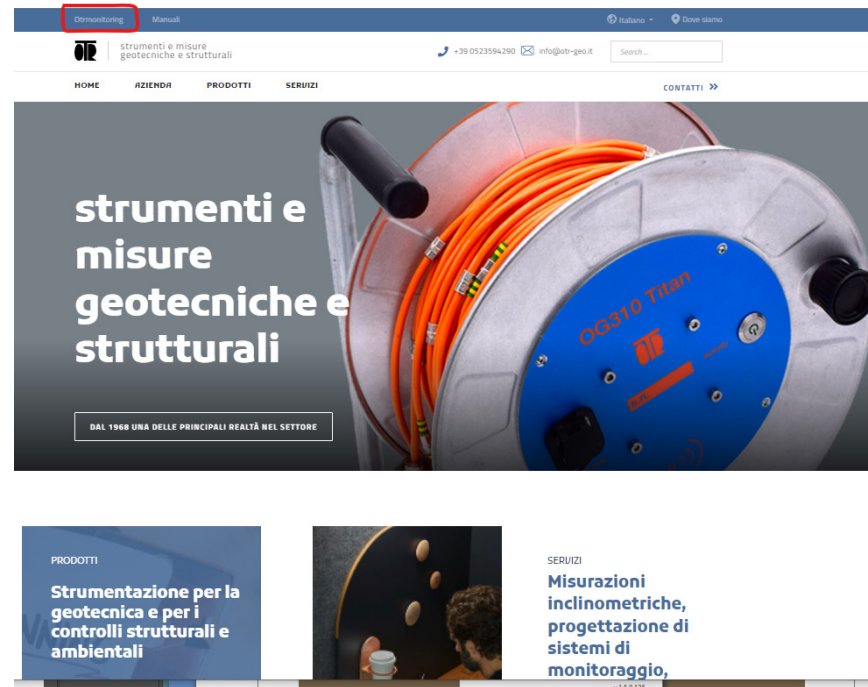


Service's Access

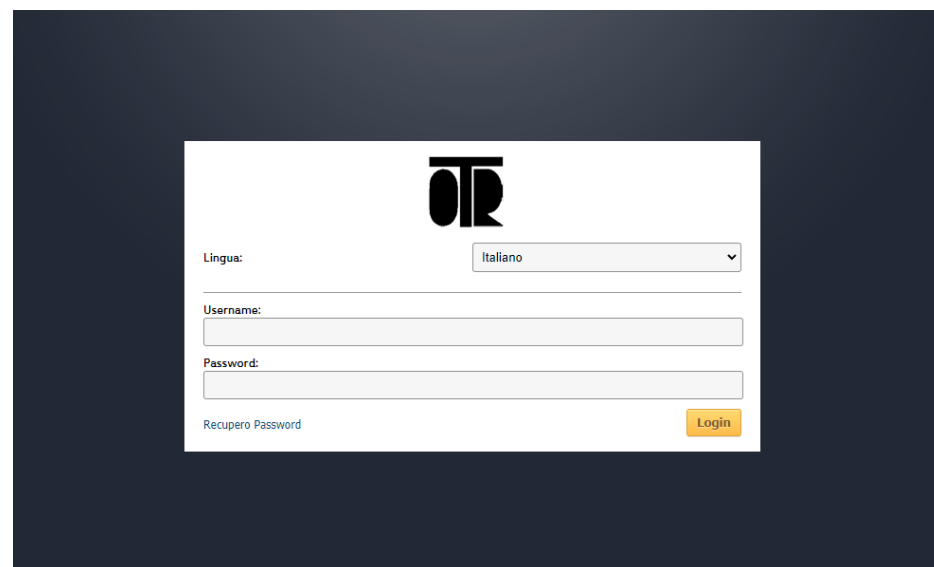
To access to the online service is needed an internet connection and an internet browser.

Access login are provided by OTR to the users enabled for the service.

Access to www.otr-geo.what-studio.com and select top left icon Otrmonitoring.

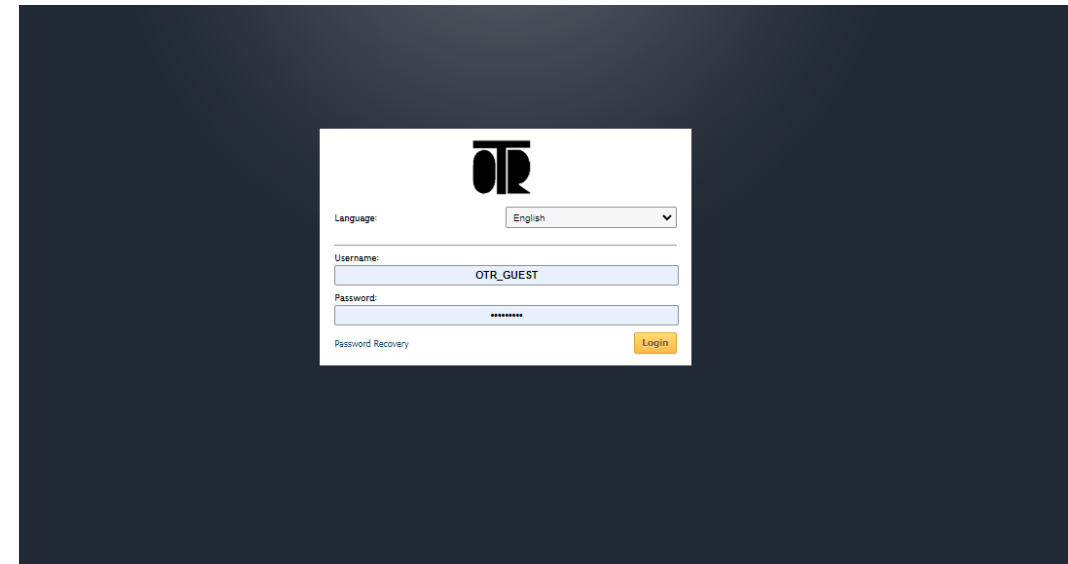


Or directly login on www.otrmonitoring.it:

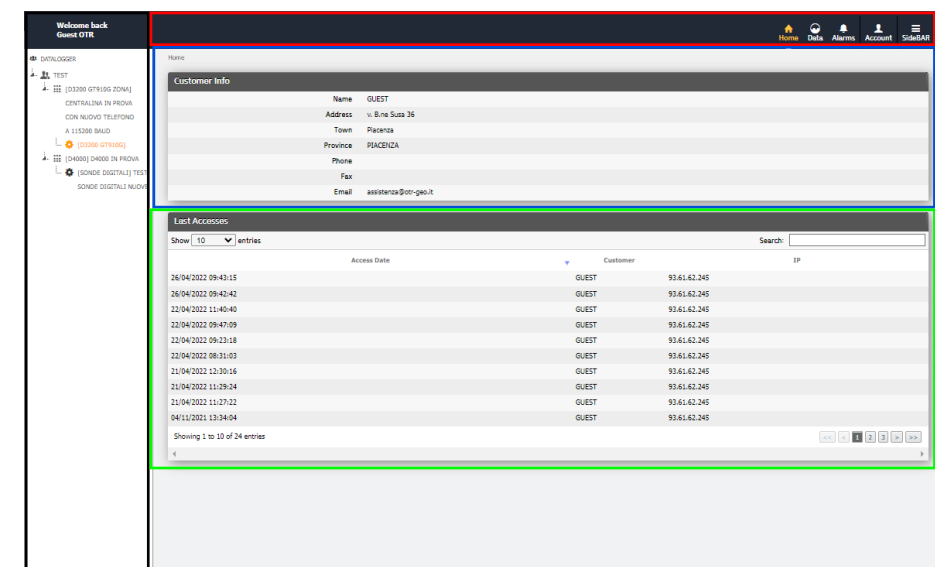


Login

Whwn OTRmonitoring is loaded, proceed to login with credentials provided by OTR.

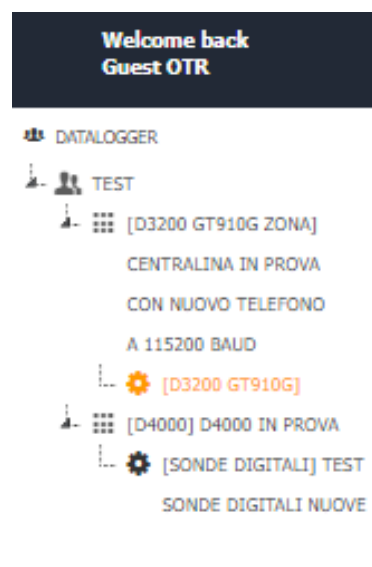


Once logged in will appear automatically the home page of the site split up in: Side Bar (black outline), Menù (red outline), Customer Info (blue outlines) and Last Accesses (green outlines).



Side Bar

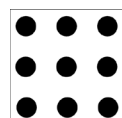
Side Bar match to the navigation pannel of the platform OTRmonitoring.
There are displayed in order the following list:



The following icons are views:



Customer icon: clicking on it will display the Customer Data.
Zones are associated with each customer.



Zone icon: clicking on it will display the corresponding zone and the available control units.
One or more Dataloggers is associated with each zone.



Datalogger icon: clicking on it will display the last 200 measurements (if any) arranged in the table from the last to the first.
One or more sensors can be associated with each data logger.



Stretch / Shrink icon: clicking on it will show / hide the fields associated with the corresponding icon.

Costumer Info

They are Displayed immediately after login or by clicking on , view the user details:

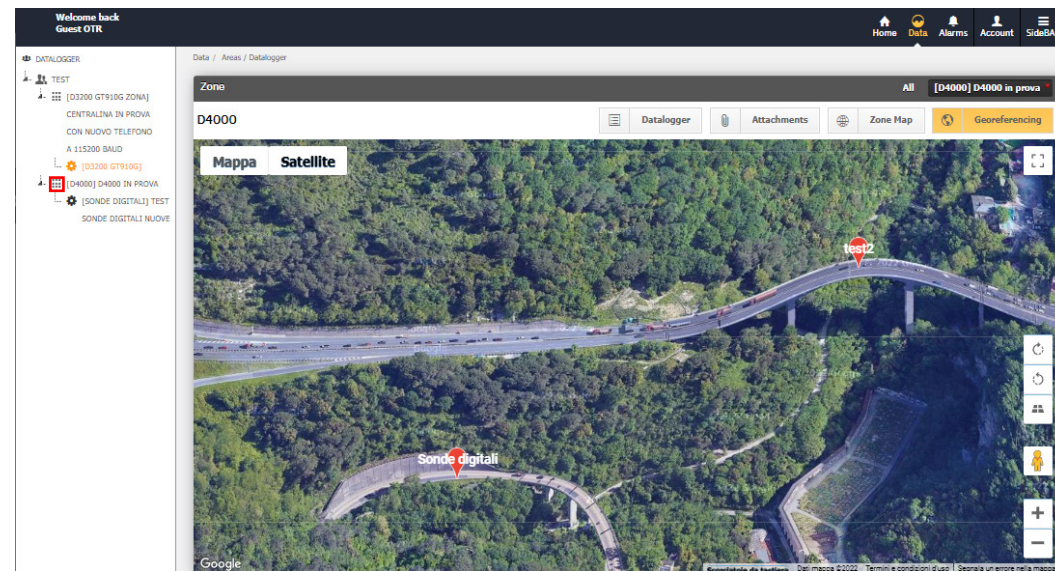
Customer Info	
Name	GUEST
Address	v. B.ne Susa 36
Town	Piacenza
Province	PIACENZA
Phone	
Fax	
Email	assistenza@otr-geo.it

If you get to this window by clicking on the button  "Home" from Menù will be displayed below the bar "Costumer Info" the "Last accesces" to the OTRmonitoring platform, to verify possible logins by third parties.

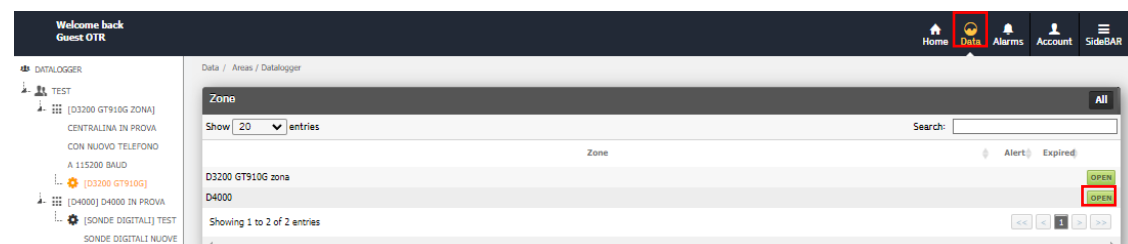
Last Accesses		
Show 10 entries	Search:	
Access Date	Customer	IP
26/04/2022 09:48:47	GUEST	93.61.62.245
26/04/2022 09:43:15	GUEST	93.61.62.245
26/04/2022 09:42:42	GUEST	93.61.62.245
22/04/2022 11:40:40	GUEST	93.61.62.245
22/04/2022 09:47:09	GUEST	93.61.62.245
22/04/2022 09:23:18	GUEST	93.61.62.245
22/04/2022 08:31:03	GUEST	93.61.62.245
21/04/2022 12:30:16	GUEST	93.61.62.245
21/04/2022 11:29:24	GUEST	93.61.62.245
21/04/2022 11:27:22	GUEST	93.61.62.245
Showing 1 to 10 of 25 entries		
<< < 1 2 3 > >>		

Zone

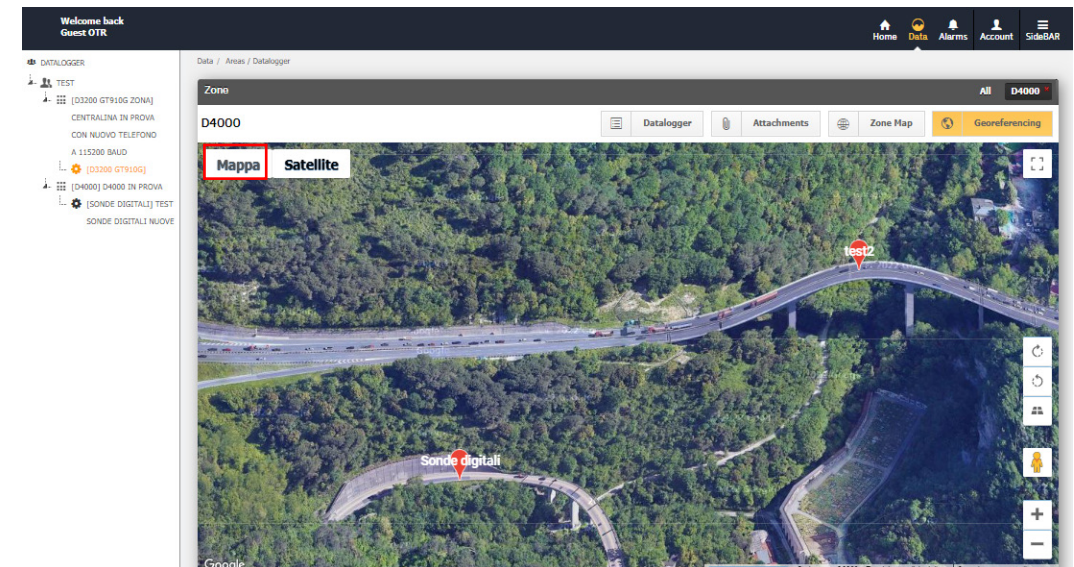
Clicking on the icon of the Side Bar  you get to the screen display corresponding to the selected Zone.



Alternatively, you can reach the same screen before by clicking on the Menu button  and then clicking on Open on the concerned Area:

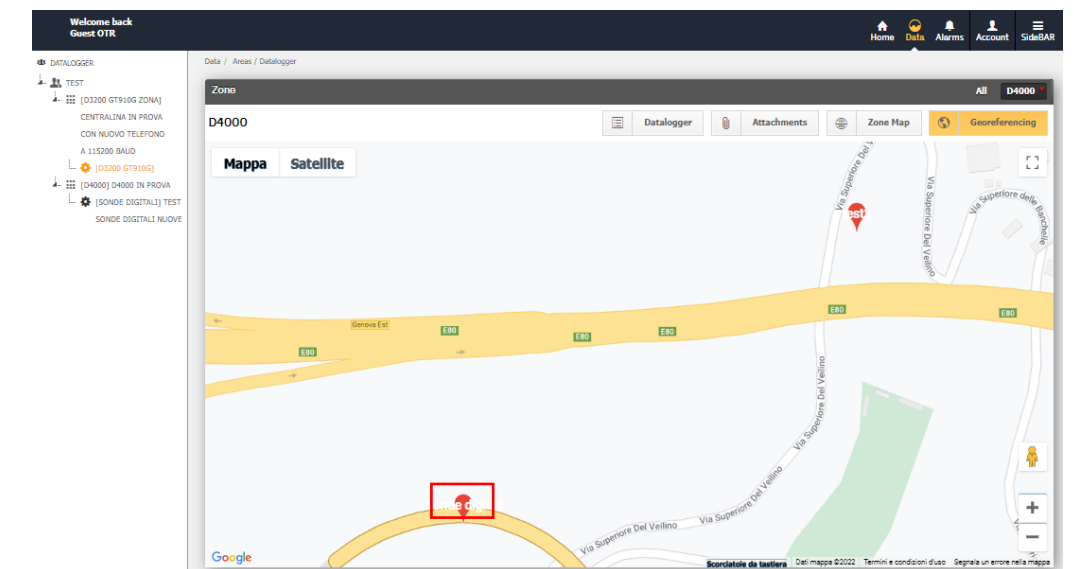


Once the Zone is displayed, you can change the display from Satellite to Map by clicking the appropriate buttons:



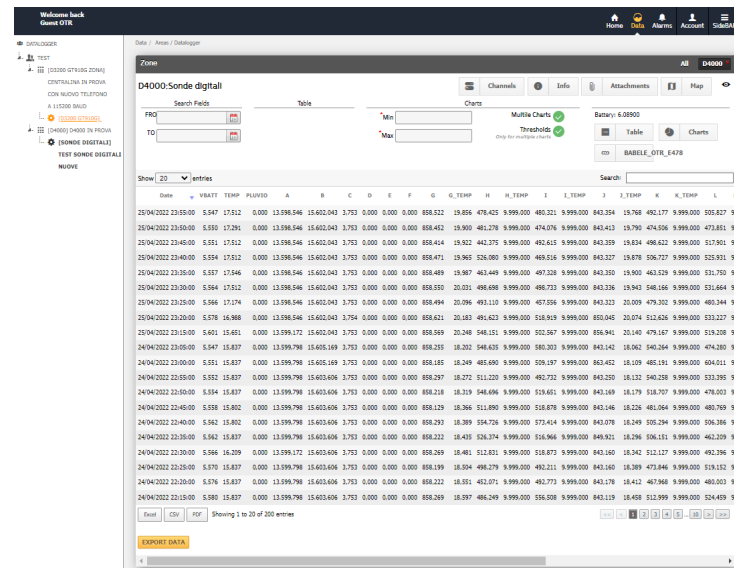
Changing the display as follows.

In both cases, clicking on the red pointers will display the data loggers located in that position. By clicking on the pointer on the left:

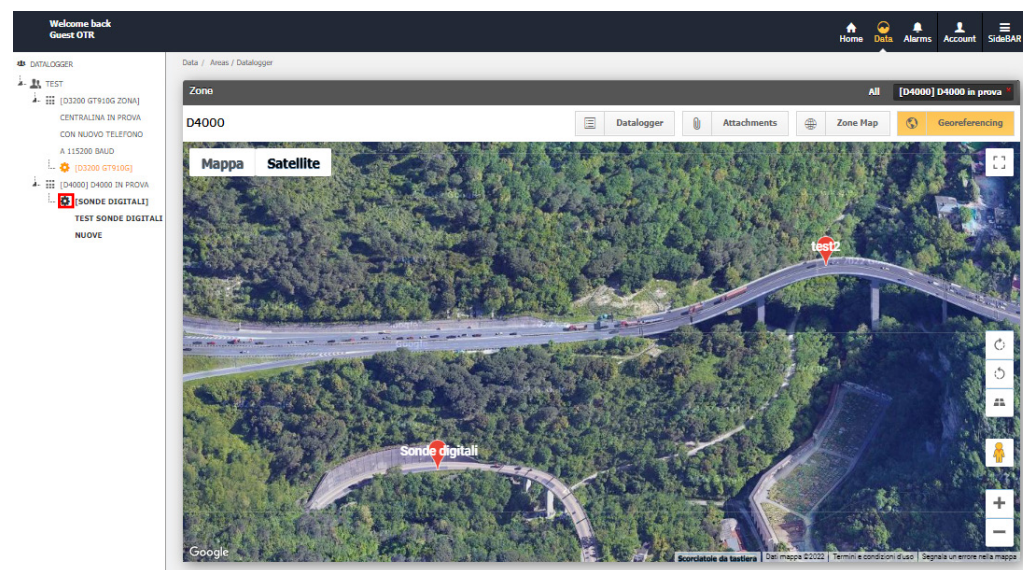


Datalogger

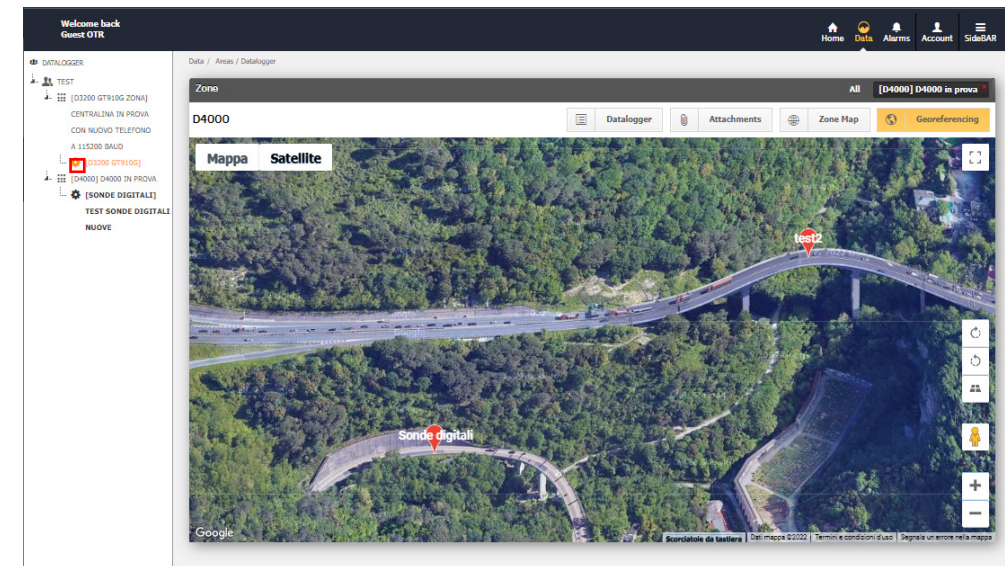
The screen corresponding to the Datalogger located in that position containing the last 200 recorded data opens:



To get to the same page, you can also click on the corresponding icon :



As you can see in the previous photo, the Datalogger icon should become  yellow. This happens when the Datalogger does not transmit data for more than 24 hours; therefore it is recognized as inactive. Clicking on it will verify the absence of measurements.

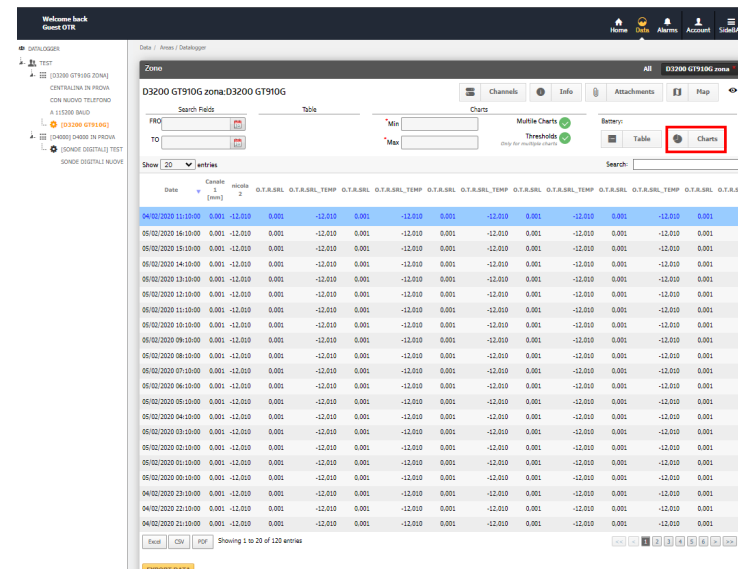


Other colors

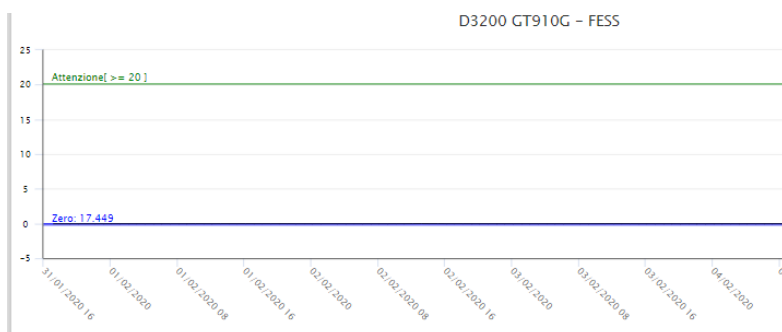
- If there's an alarm Datalogger icon will become red 
- In case of low battery, if previously set, Datalogger icon will be  purple.

Charts

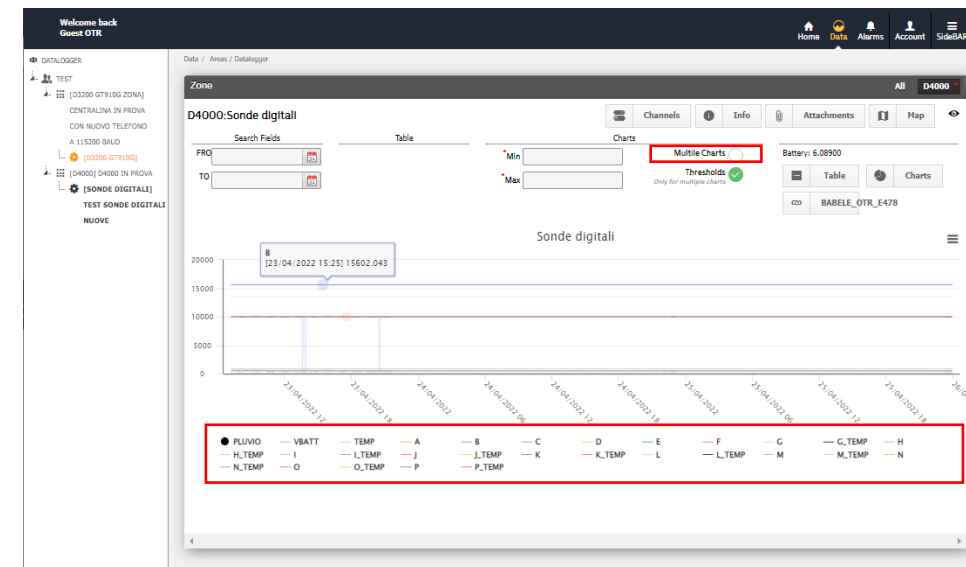
To view the graph from the tables, simply click on “Charts”; which will display, with the following settings, all the graphs separately deriving from each meter:



Removing the check from “Multiple Charts” and clicking again on “Charts” the graphs superimposed and compared, according to the same unit of measurement, will be displayed but their alarm thresholds will no longer be seen:



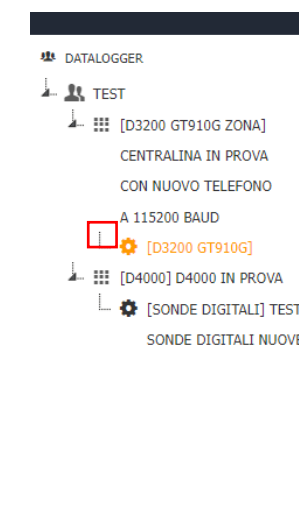
In this case the lines will be very flattened because the difference of measured quantities will be much larger than the measurement variation relative to each graph.



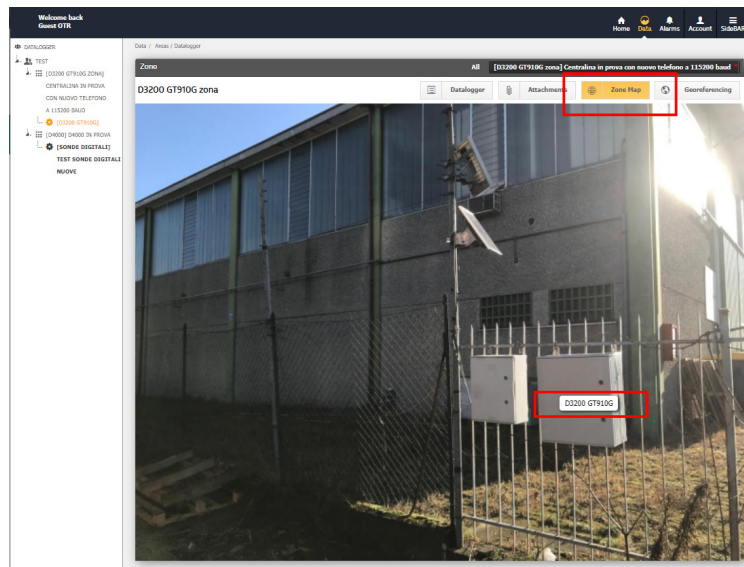
To hide some curves in this view click on their name below. Click again to make them reappear.

Display a single chart:

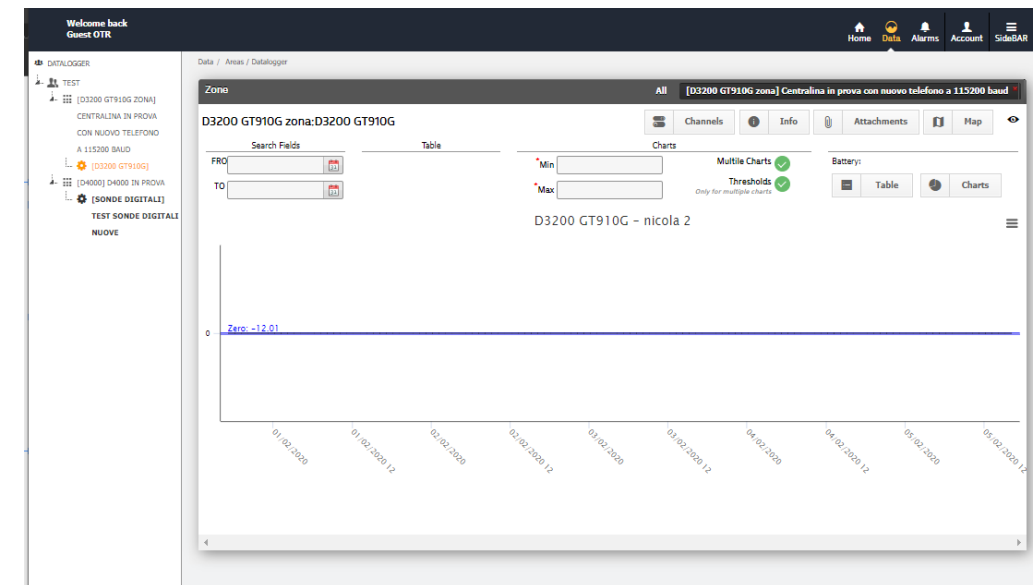
If we are interested in viewing the graph relating to a single instrument we can proceed as follows by selecting the affected area:



With this way it's open the photographic map of the Area. If the "Geolocation" view is opened, simply click on "Zone Map" and then on the Probe / Datalogger that interests (In case of alarm or exceeding threshold, from this visualisation the icon will change color) :

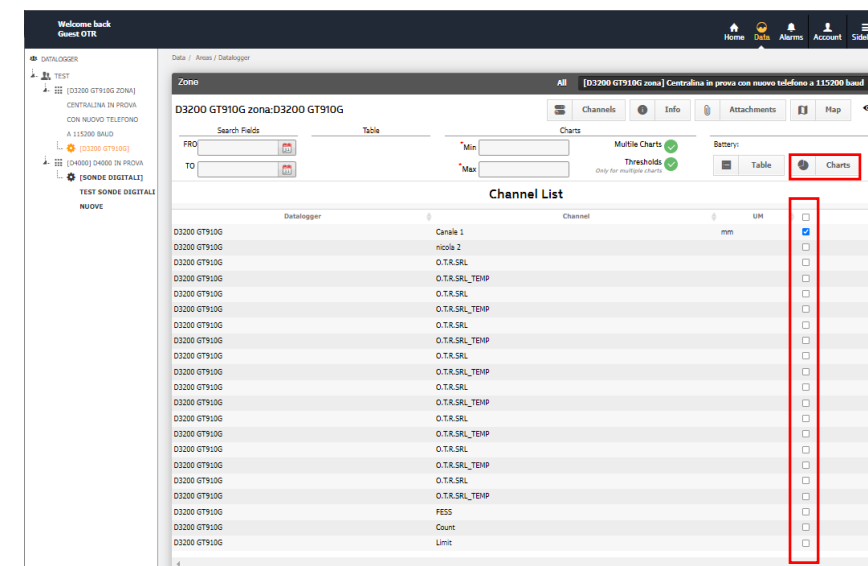
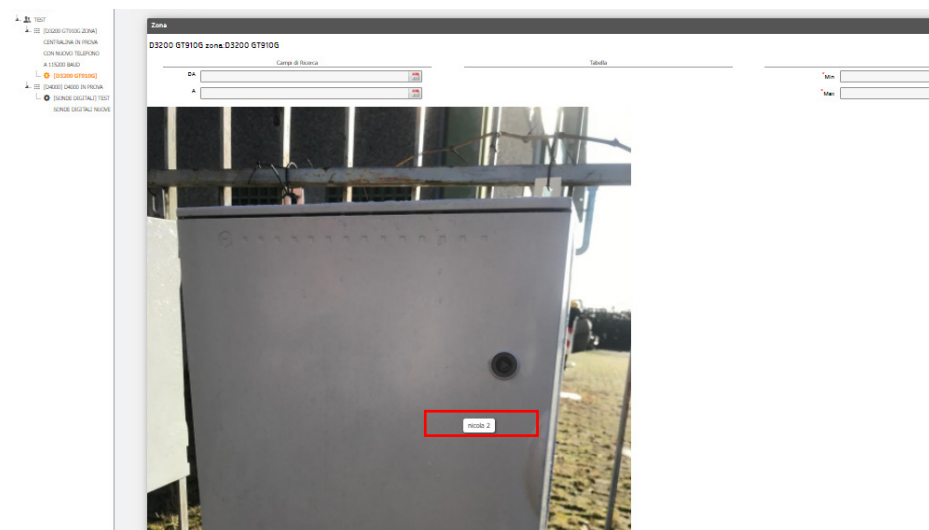


At this point, only the graph of the associated probe opens:

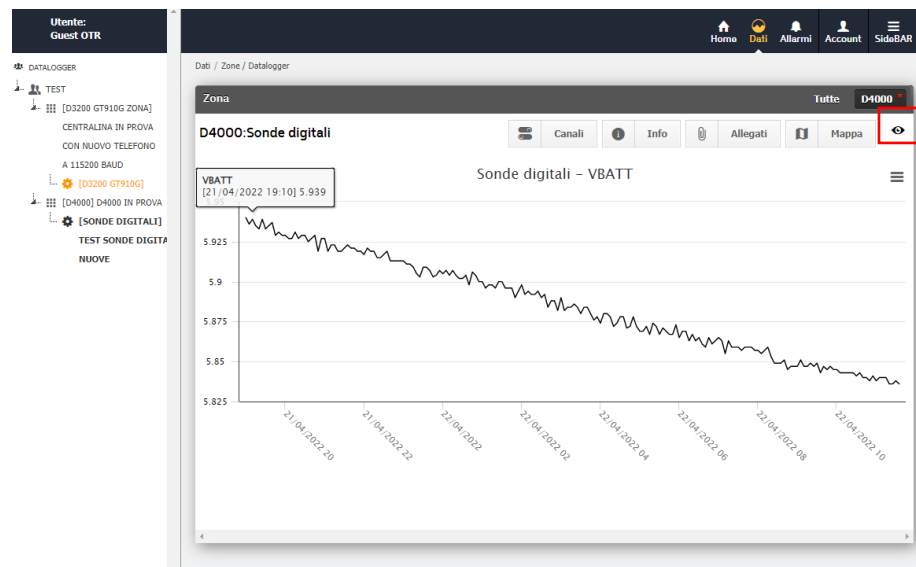


You can also get to the same graph by switching from the tabular view: by ticking all the unsuitable probes and returning the "Charts" command;

Once the probes' screen opens, select the one concerned:



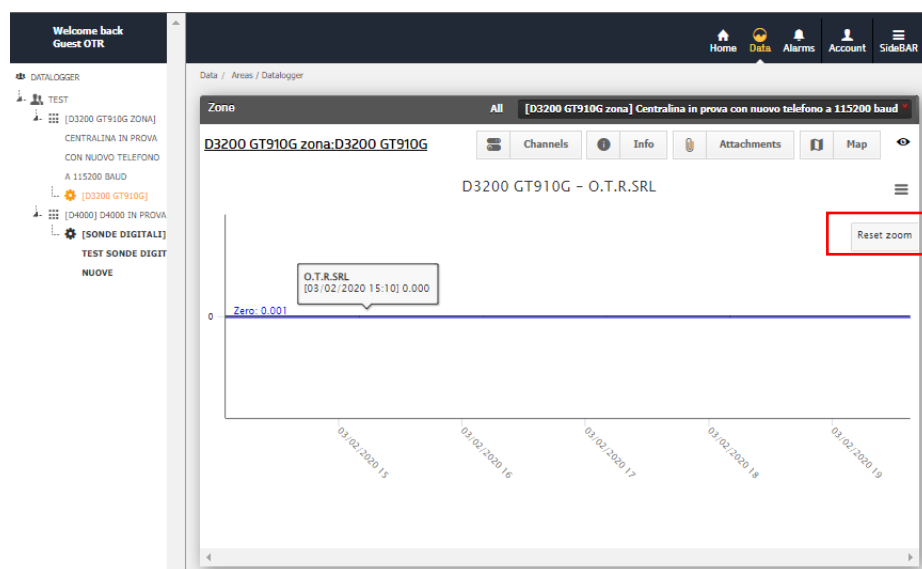
Following the procedure, at the bottom of the page only the graph of interest will be returned, or by clicking on the icon  it will be displayed full screen.



Chart's Functions

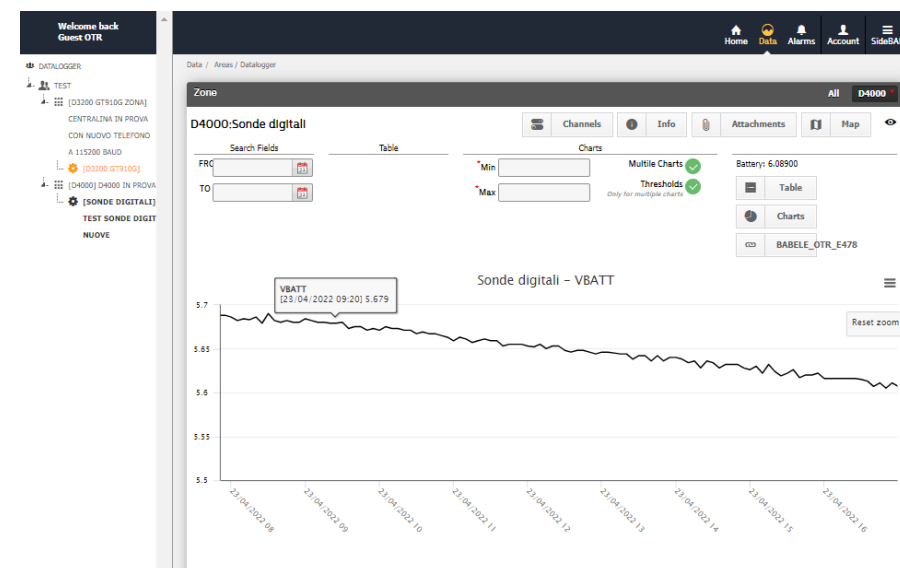
Zoom:

Selecting an area of the graph with the pointer it'll be zoomed. The operation can be repeated as many times as necessary. To return to the normal view, click "Reset Zoom":



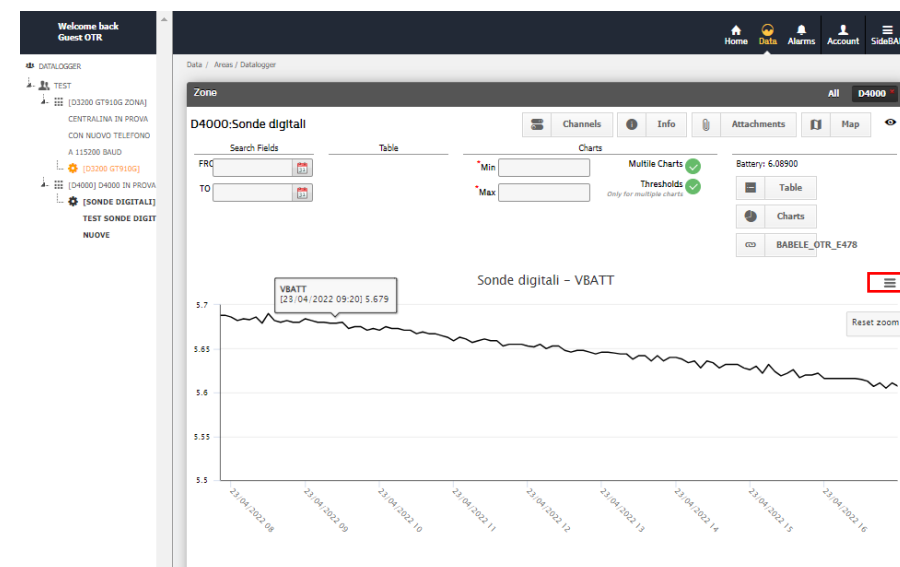
Values on the curve:

Sliding the cursor on the curve are displayed: acquisition Date/h vs measurement value.

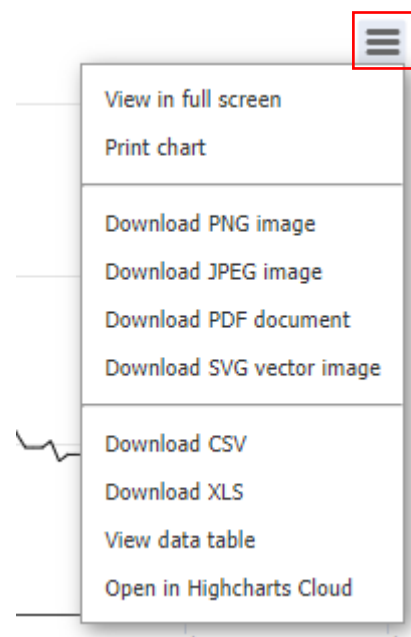


Export charts:

Clicking on the three dashes on the right opens the export menu:

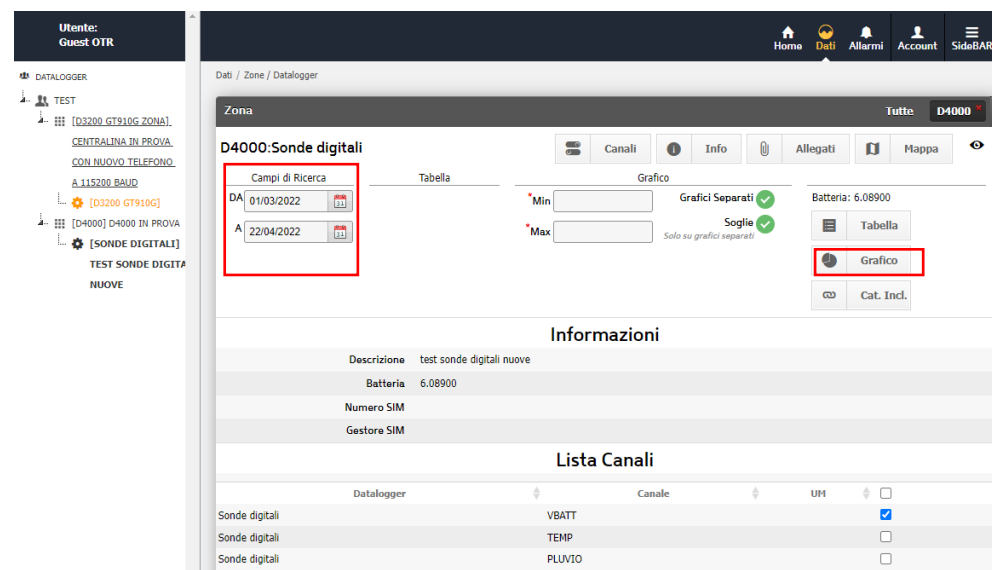


And you can choose: to view a full screen Charts -getting back from this visualisation clicking on PC "Esc"-, print the graph or download it in the appropriate format.

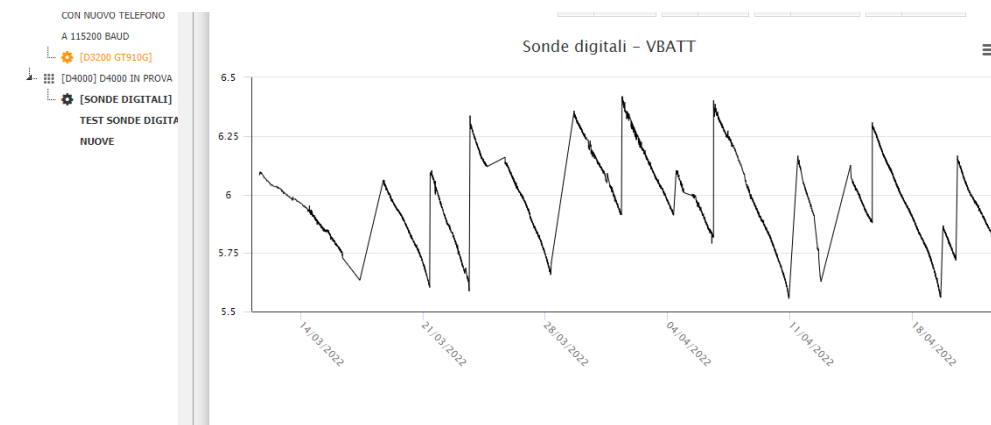


View intervals:

To view a time range of the chart, set the dates in "Search fields" and click on "Charts":



The graph'll be reduced to the around that we have selected and you can see a more precised view:



Tips & Tricks:

By setting the same date in both "From" and "To" you will have the daily overview of the measurements.

If you set only "From" you will see all the measurements started from that date onwards.

On the contrary, if you set only "To" you would see all the measurements from the first to the one corresponding to the selected date.

In the "Separate Charts" view, the previously set thresholds are highlighted by an other color.

If a "Zero" measurement exists, it is shown in the graph and in the table in Blue color. The subsequent measurements will be related to it, instead of the arithmetic 0, if it is not eliminated from the selection of the points taken into consideration.

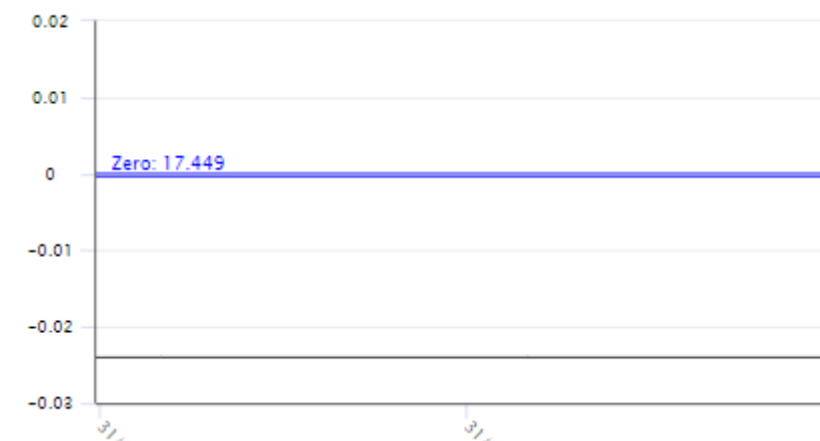
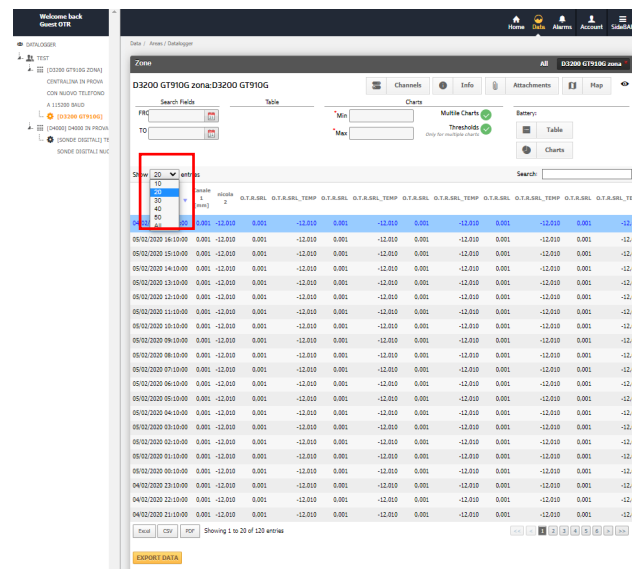


Table functions:

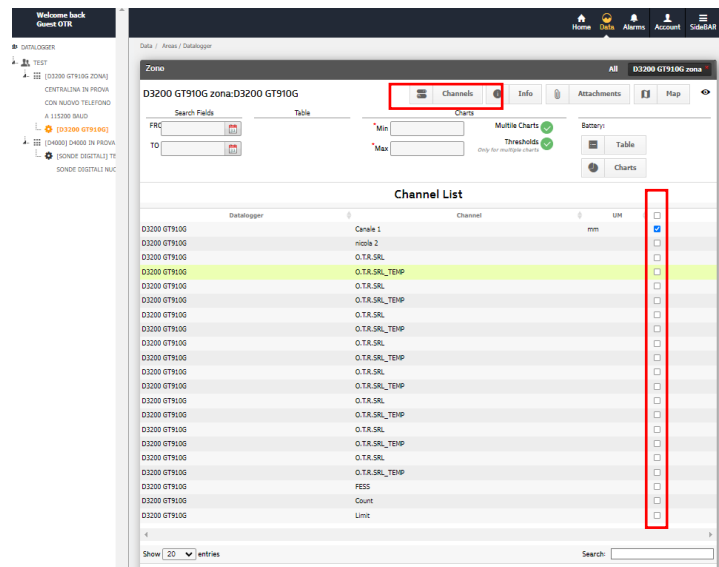
View more / less measurements

By clicking on the arrow at the top left you can set a different number of data displayed on the same page:



View only one channel:

As for the graphs, by clicking on channels and ticking only the meters concerned, the table will appear with only the required values:

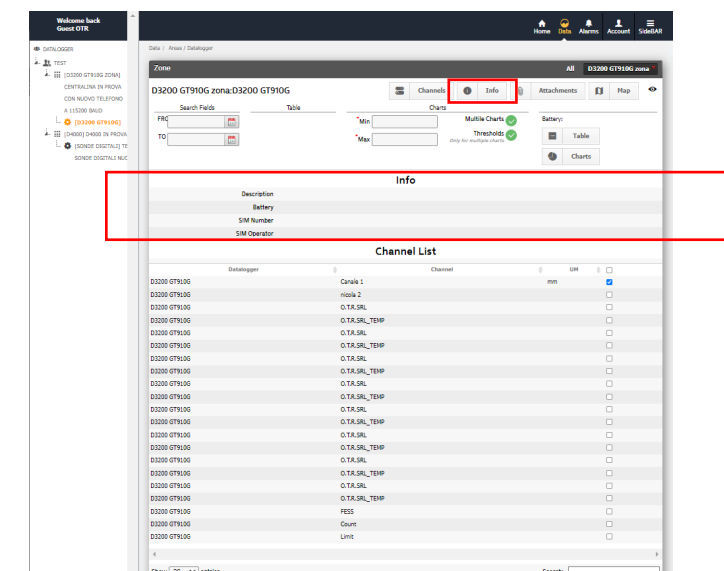


This will be the result:

04/02/2020 11:10:00	0,001	☐
05/02/2020 16:10:00	0,001	☐
05/02/2020 15:10:00	0,001	☐
05/02/2020 14:10:00	0,001	☐
05/02/2020 13:10:00	0,001	☐
05/02/2020 12:10:00	0,001	☐
05/02/2020 11:10:00	0,001	☐
05/02/2020 10:10:00	0,001	☐
05/02/2020 09:10:00	0,001	☐
05/02/2020 08:10:00	0,001	☐
05/02/2020 07:10:00	0,001	☐
05/02/2020 06:10:00	0,001	☐
05/02/2020 05:10:00	0,001	☐
05/02/2020 04:10:00	0,001	☐
05/02/2020 03:10:00	0,001	☐
05/02/2020 02:10:00	0,001	☐
05/02/2020 01:10:00	0,001	☐
05/02/2020 00:10:00	0,001	☐
04/02/2020 23:10:00	0,001	☐
04/02/2020 22:10:00	0,001	☐

Info:

By clicking on info we will see some status parameters of the Datalogger:



Data export:

To export table data in excel format, for corrections or convenience. press "EXPORT DATA" on the bottom left. An excel sheet will be generated with the same view as the table:

DATALOGGER

TEST

[D3200 GT910G ZONA]

CENTRALINA IN PROVA

CON NUOVO TELEFONO

A 115200 BAUD

[D3200 GT910G]

[D4005] D4000 IN PROVA

[SONDIE DIGITALI]

TEST SONDIE DIGITI

NUOVE

22/04/2024 12:55:00	5,818	15,872	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,283	17,944	710,501	9,999,000	662,828	9,999,000	255,906	17,612	70
22/04/2024 12:55:00	5,824	15,616	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,246	17,873	797,809	9,999,000	669,147	9,999,000	294,581	17,588	76
22/04/2024 12:45:00	5,824	15,651	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,232	17,850	766,010	9,999,000	741,396	9,999,000	394,619	17,564	71
22/04/2024 13:40:00	5,828	15,430	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,175	17,850	801,129	9,999,000	738,410	9,999,000	254,527	17,540	79
22/04/2024 12:33:00	5,826	15,430	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,194	17,826	685,654	9,999,000	738,867	9,999,000	336,706	17,516	65
22/04/2024 12:30:00	5,822	15,686	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,236	17,802	673,756	9,999,000	654,942	9,999,000	362,827	17,492	72
22/04/2024 12:25:00	5,822	15,500	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,227	17,755	711,536	9,999,000	713,094	9,999,000	367,329	17,468	75
22/04/2024 12:30:00	5,826	15,465	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,180	17,731	704,269	9,999,000	734,139	9,999,000	456,966	17,420	61
22/04/2024 12:31:00	5,826	15,465	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,199	17,707	716,887	9,999,000	697,093	9,999,000	295,053	17,396	75
22/04/2024 13:10:00	5,828	15,057	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,218	17,684	626,855	9,999,000	756,417	9,999,000	294,411	17,348	70
22/04/2024 12:35:00	5,824	15,465	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,236	17,636	708,849	9,999,000	733,848	9,999,000	398,882	17,300	65
22/04/2024 13:00:00	5,826	15,279	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,143	17,588	683,997	9,999,000	817,280	9,999,000	414,634	17,251	60
22/04/2024 12:25:00	5,824	15,315	0,000	13,600,424	15,603,606	3,753	0,000	0,000	0,000	858,129	17,540	675,643	9,999,000	650,436	9,999,000	326,408	17,203	60
22/04/2024 12:50:00	5,828	15,093	0,000	13,600,424	15,605,169	3,753	0,000	0,000	0,000	858,161	17,492	762,283	9,999,000	661,518	9,999,000	432,590	17,154	70
22/04/2024 12:45:00	5,828	15,093	0,000	13,601,050	15,605,169	3,753	0,000	0,000	0,000	858,101	17,444	686,777	9,999,000	782,041	9,999,000	333,483	17,106	66
22/04/2024 12:40:00	5,828	15,093	0,000	13,601,050	15,605,169	3,753	0,000	0,000	0,000	858,152	17,396	710,289	9,999,000	725,013	9,999,000	455,106	17,033	73
22/04/2024 12:35:00	5,830	14,721	0,000	13,601,050	15,605,169	3,753	0,000	0,000	0,000	858,096	17,324	765,749	9,999,000	659,183	9,999,000	345,074	16,984	73
22/04/2024 12:30:00	5,832	14,721	0,000	13,601,050	15,605,169	3,753	0,000	0,000	0,000	858,166	17,276	697,426	9,999,000	859,301	9,999,000	445,610	16,924	61
22/04/2024 12:25:00	5,830	14,721	0,000	13,601,050	15,605,169	3,753	0,000	0,000	0,000	858,143	17,227	731,242	9,999,000	731,687	9,999,000	397,242	16,861	77
22/04/2024 12:20:00	5,836	14,463	0,000	13,601,050	15,605,169	3,753	0,000	0,000	0,000	858,068	17,179	665,898	9,999,000	715,980	9,999,000	370,300	16,812	69

Excel

CSV

PDF

Vista da 1 a 20 di 200 elementi

«

<

1

2

3

4

5

10

>

»

EXPORT DATA

DATALOGGER

TEST

[D3200 GT910G ZONA]

CENTRALINA IN PROVA

CON NUOVO TELEFONO

A 115200 BAUD

[D3200 GT910G]

[D4000] D4000 IN PROVA

[SONDIE DIGITALI]

TEST SONDIE DIGITALI

NUOVE

22/04/2022 13:55:00	5,818	15,872	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,283	17,944	710,501	9,999,000	662,828	9,999,000	255,906	17,612	903
22/04/2022 13:50:00	5,824	15,616	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,246	17,873	797,809	9,999,000	669,147	9,999,000	294,581	17,588	761
22/04/2022 13:45:00	5,824	15,651	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,232	17,850	766,010	9,999,000	741,396	9,999,000	394,619	17,564	731
22/04/2022 13:40:00	5,828	15,430	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,175	17,850	801,129	9,999,000	738,410	9,999,000	254,527	17,540	799
22/04/2022 13:35:00	5,826	15,430	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,194	17,826	685,654	9,999,000	738,867	9,999,000	336,706	17,516	690
22/04/2022 13:30:00	5,822	15,686	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,236	17,802	673,756	9,999,000	654,942	9,999,000	362,827	17,492	725
22/04/2022 13:25:00	5,822	15,500	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,227	17,755	711,536	9,999,000	731,094	9,999,000	367,329	17,468	655
22/04/2022 13:20:00	5,826	15,465	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,180	17,731	704,369	9,999,000	734,139	9,999,000	456,466	17,420	610
22/04/2022 13:15:00	5,826	15,465	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,199	17,707	716,887	9,999,000	697,093	9,999,000	295,053	17,396	755
22/04/2022 13:10:00	5,828	15,057	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,218	17,684	626,055	9,999,000	756,417	9,999,000	299,411	17,348	701
22/04/2022 13:05:00	5,824	15,465	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,236	17,636	708,849	9,999,000	733,848	9,999,000	398,882	17,300	659
22/04/2022 13:00:00	5,826	15,279	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,143	17,588	683,997	9,999,000	817,280	9,999,000	414,634	17,251	702
22/04/2022 12:55:00	5,824	15,315	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,129	17,540	675,643	9,999,000	650,436	9,999,000	326,408	17,203	696
22/04/2022 12:50:00	5,828	15,093	0,000	13.600,424	15.605,169	3,753	0,000	0,000	0,000	858,161	17,492	762,283	9,999,000	661,518	9,999,000	432,590	17,154	704
22/04/2022 12:45:00	5,828	15,093	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,101	17,444	686,777	9,999,000	782,041	9,999,000	331,483	17,106	666
22/04/2022 12:40:00	5,828	15,093	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,152	17,396	710,289	9,999,000	725,013	9,999,000	456,103	17,073	734
22/04/2022 12:35:00	5,830	14,721	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,096	17,324	765,749	9,999,000	659,183	9,999,000	345,074	16,984	734
22/04/2022 12:30:00	5,832	14,721	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,166	17,276	697,426	9,999,000	859,301	9,999,000	445,674	16,910	622
22/04/2022 12:25:00	5,830	14,721	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,143	17,227	731,242	9,999,000	731,687	9,999,000	397,242	16,861	775
22/04/2022 12:20:00	5,836	14,463	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,068	17,179	665,898	9,999,000	715,980	9,999,000	370,300	16,812	695

Excel

CSV

PDF

Vista da 1 a 20 di 200 elementi

<<<

1

2

3

4

5

10

>>>

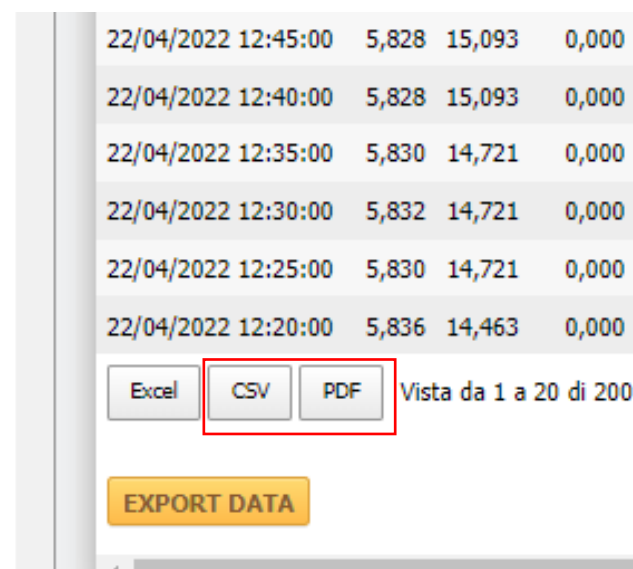
EXPORT DATA

A1		Data																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P		
1	Data	VBAT TEMP	PLUVIA	A	B	C	D	E	F	G	K	G	G_TENH	H_TEMP	I	T_TEMP	J	
2	2022-04-22 13:55:00	5,818	15,872	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,283	17,944	710,501	9,999,000	662,828	9.999,000	25	
3	2022-04-22 13:50:00	5,824	15,616	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,246	17,873	797,809	9,999,000	669,147	9.999,000	29	
4	2022-04-22 13:45:00	5,824	15,651	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,232	17,850	1,010	9,999,000	741,396	9.999,000	39	
5	2022-04-22 13:40:00	5,828	15,430	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,175	17,850	801,129	9,999,000	738,410	9.999,000	25	
6	2022-04-22 13:35:00	5,826	15,430	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,194	17,826	685,654	9,999,000	738,867	9.999,000	33	
7	2022-04-22 13:30:00	5,822	15,686	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,236	17,802	673,756	9,999,000	654,942	9.999,000	36	
8	2022-04-22 13:25:00	5,822	15,500	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,227	17,755	711,536	9,999,000	713,094	9.999,000	36	
9	2022-04-22 13:20:00	5,826	15,465	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,180	17,731	704,369	9,999,000	734,139	9.999,000	45	
10	2022-04-22 13:15:00	5,826	15,465	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,199	17,707	716,887	9,999,000	697,093	9.999,000	29	
11	2022-04-22 13:10:00	5,828	15,057	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,218	17,684	626,055	9,999,000	756,417	9.999,000	29	
12	2022-04-22 13:05:00	5,824	15,465	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,236	17,636	708,849	9,999,000	733,848	9.999,000	39	
13	2022-04-22 13:00:00	5,826	15,279	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,143	17,588	683,997	9,999,000	817,280	9.999,000	41	
14	2022-04-22 12:55:00	5,824	15,315	0,000	13.600,424	15.603,606	3,753	0,000	0,000	0,000	858,129	17,540	675,643	9,999,000	650,436	9.999,000	32	
15	2022-04-22 12:50:00	5,828	15,093	0,000	13.600,424	15.605,169	3,753	0,000	0,000	0,000	858,161	17,492	762,283	9,999,000	661,518	9.999,000	43	
16	2022-04-22 12:45:00	5,828	15,093	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,101	17,444	686,777	9,999,000	782,041	9.999,000	33	
17	2022-04-22 12:40:00	5,828	15,093	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,152	17,396	710,289	9,999,000	725,013	9.999,000	45	
18	2022-04-22 12:35:00	5,830	14,721	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,096	17,324	765,749	9,999,000	659,183	9.999,000	34	
19	2022-04-22 12:30:00	5,832	14,721	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,166	17,226	697,426	9,999,000	859,301	9.999,000	44	
20	2022-04-22 12:25:00	5,830	14,721	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,143	17,227	731,242	9,999,000	731,687	9.999,000	39	
21	2022-04-22 12:20:00	5,836	14,463	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,068	17,179	665,898	9,999,000	715,980	9.999,000	37	
22	2022-04-22 12:15:00	5,826	14,943	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,016	17,130	755,280	9,999,000	743,112	9.999,000	25	
23	2022-04-22 12:10:00	5,826	14,943	0,000	13.601,050	15.605,169	3,753	0,000	0,000	0,000	858,021	17,081	759,276	9,999,000	669,261	9.999,000	37	

AD1		P_TEMP														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Data	VBATT	TEMP	PLUVIO	A	B	C	D	E	F	G	G_TEMP	H	H_TEMP	I	I_TEMP
2	22/04/2002	5.818	15.872	0	13600.42	15603.61	3.753	0	0	0	0	858.283	17.944	710.501	9999	662.828
3	22/04/2002	5.824	15.616	0	13600.42	15603.61	3.753	0	0	0	0	858.246	17.873	797.809	9999	669.147
4	22/04/2002	5.824	15.651	0	13600.42	15603.61	3.753	0	0	0	0	858.232	17.85	766.01	9999	741.396
5	22/04/2002	5.828	15.43	0	13600.42	15603.61	3.753	0	0	0	0	858.175	17.85	801.129	9999	738.41
6	22/04/2002	5.826	15.43	0	13600.42	15603.61	3.753	0	0	0	0	858.194	17.826	685.654	9999	738.867
7	22/04/2002	5.822	15.686	0	13600.42	15603.61	3.753	0	0	0	0	858.236	17.802	673.756	9999	654.942
8	22/04/2002	5.822	15.5	0	13600.42	15603.61	3.753	0	0	0	0	858.227	17.755	711.536	9999	713.094
9	22/04/2002	5.826	15.465	0	13600.42	15603.61	3.753	0	0	0	0	858.18	17.731	704.369	9999	734.139
10	22/04/2002	5.826	15.465	0	13600.42	15603.61	3.753	0	0	0	0	858.199	17.707	716.887	9999	697.093
11	22/04/2002	5.828	15.057	0	13600.42	15603.61	3.753	0	0	0	0	858.218	17.684	626.055	9999	756.417
12	22/04/2002	5.824	15.465	0	13600.42	15603.61	3.753	0	0	0	0	858.236	17.636	708.849	9999	733.848
13	22/04/2002	5.826	15.279	0	13600.42	15603.61	3.753	0	0	0	0	858.143	17.588	683.997	9999	817.28
14	22/04/2002	5.824	15.315	0	13600.42	15603.61	3.753	0	0	0	0	858.129	17.54	675.643	9999	650.436
15	22/04/2002	5.828	15.093	0	13600.42	15605.17	3.753	0	0	0	0	858.161	17.492	762.283	9999	661.518
16	22/04/2002	5.828	15.093	0	13601.05	15605.17	3.753	0	0	0	0	858.101	17.444	686.777	9999	782.041
17	22/04/2002	5.828	15.093	0	13601.05	15605.17	3.753	0	0	0	0	858.152	17.396	710.289	9999	725.013
18	22/04/2002	5.83	14.721	0	13601.05	15605.17	3.753	0	0	0	0	858.096	17.324	765.749	9999	659.183
19	22/04/2002	5.832	14.721	0	13601.05	15605.17	3.753	0	0	0	0	858.166	17.276	697.426	9999	859.301
20	22/04/2002	5.83	14.721	0	13601.05	15605.17	3.753	0	0	0	0	858.143	17.227	731.242	9999	731.687
21	22/04/2002	5.836	14.463	0	13601.05	15605.17	3.753	0	0	0	0	858.068	17.179	665.898	9999	715.98
22	22/04/2002	5.826	14.943	0	13601.05	15605.17	3.753	0	0	0	0	858.016	17.13	755.28	9999	743.112
23	22/04/2002	5.826	14.943	0	13601.05	15605.17	3.753	0	0	0	0	858.021	17.081	759.276	9999	669.261

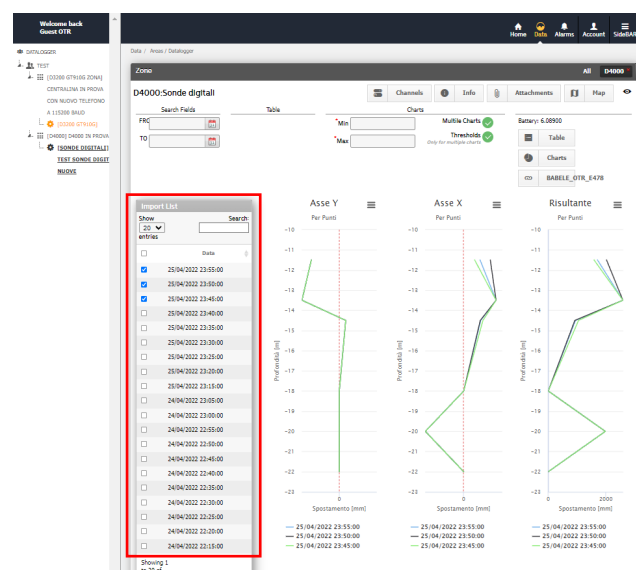
CSV & PDF:

The CSV and PDF buttons create respectively: a text file corresponding to the coordinates of the data in the Excel table, in order to convert it into other calculation programs; the pdf of the table.



Inclinometric chain:

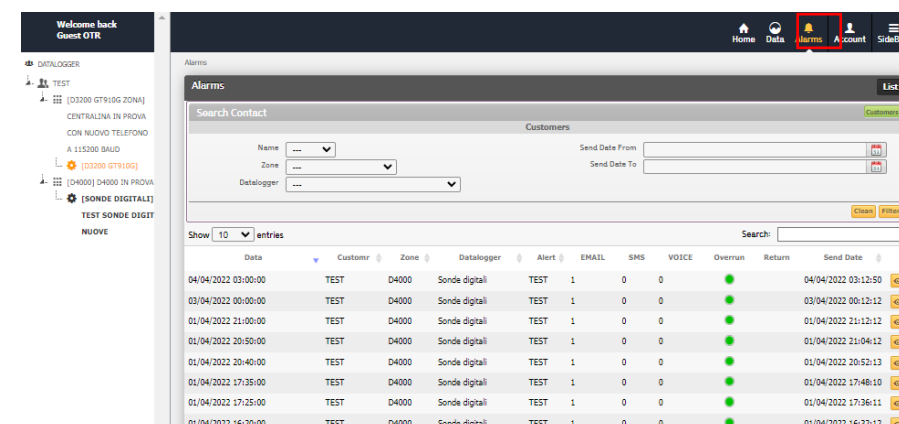
If there is an inclinometric chain, by clicking on the “BABELE OTR” button, you can view the displacement graphs according to the ticked time coordinates:



Other Functions:

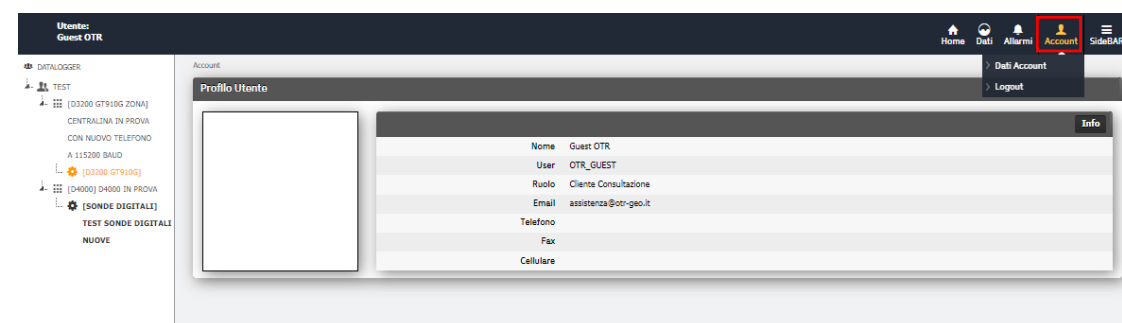
Alarms:

Clicking on the icon  “Alarms” on the Menù top, the alarms set, their status and the Datalogger to which they are associated will be displayed. It is important to keep in mind that alerts can be issued hours after the actual data acquisition on field. Do not use OTRmonitoring as a fast alerting system.



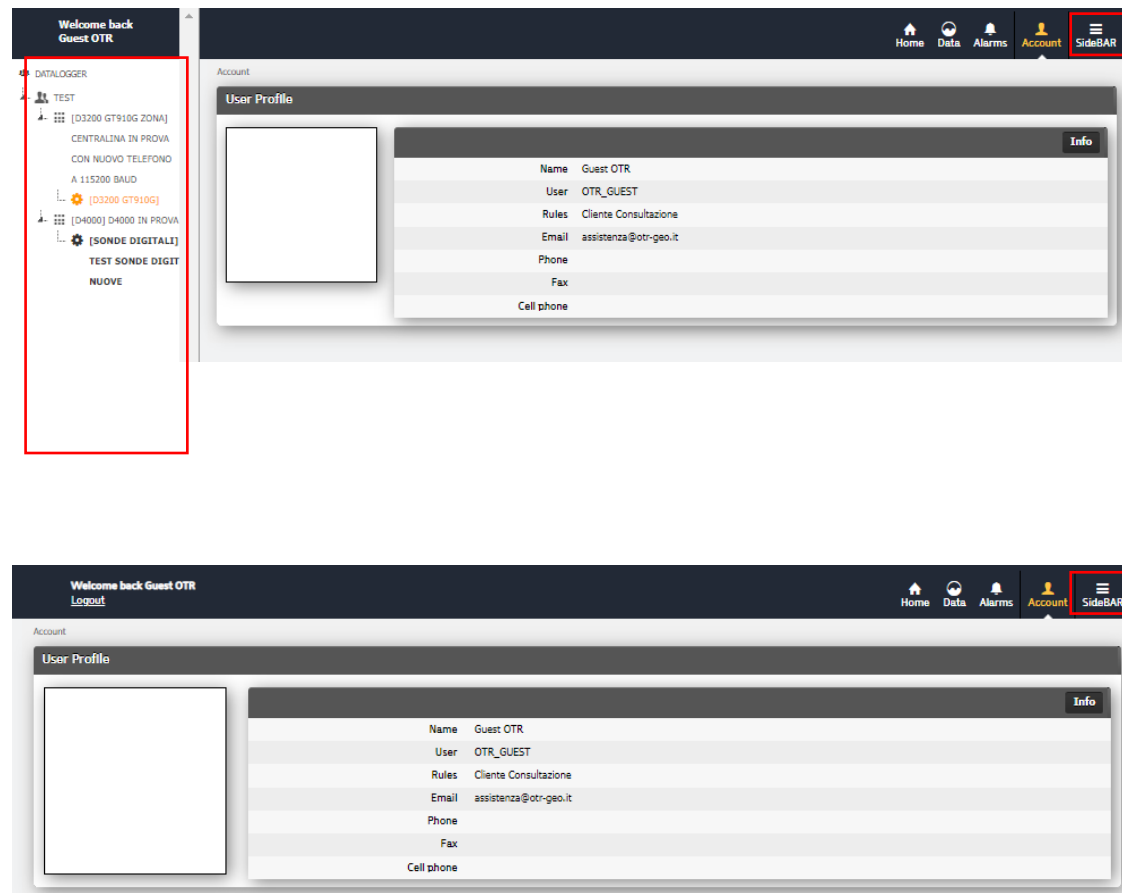
Account:

Clicking on the icon  “Account” on the Menù top, a dropdown list will appear. By clicking on “Account Data” the “User Profile” will be displayed, as follows. Clicking on logout you will return to the initial OTRmonitoring login screen.



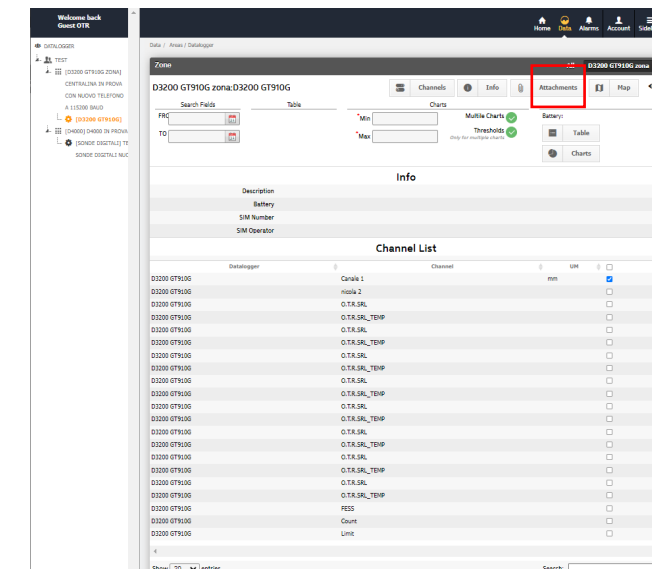
Side Bar:

Clicking on “Side Bar” icon  on top of Menù, will be closed the side bar in case it's open or it'll open if it's closed.



Attachments:

Each window is associated, if loaded manually, with Attachments that can be viewed by clicking on the button with the same name:



How to Apply Alert Thresholds:

Any request of alert threshold needs to be notified to OTR via email.

Thresholds ARE NOT SET until you get a confirmation email back from OTR.

Virtual channels can be set, as well as histogram charts for a better representation of the measured data (for instance, in case of cumulated rain charts)