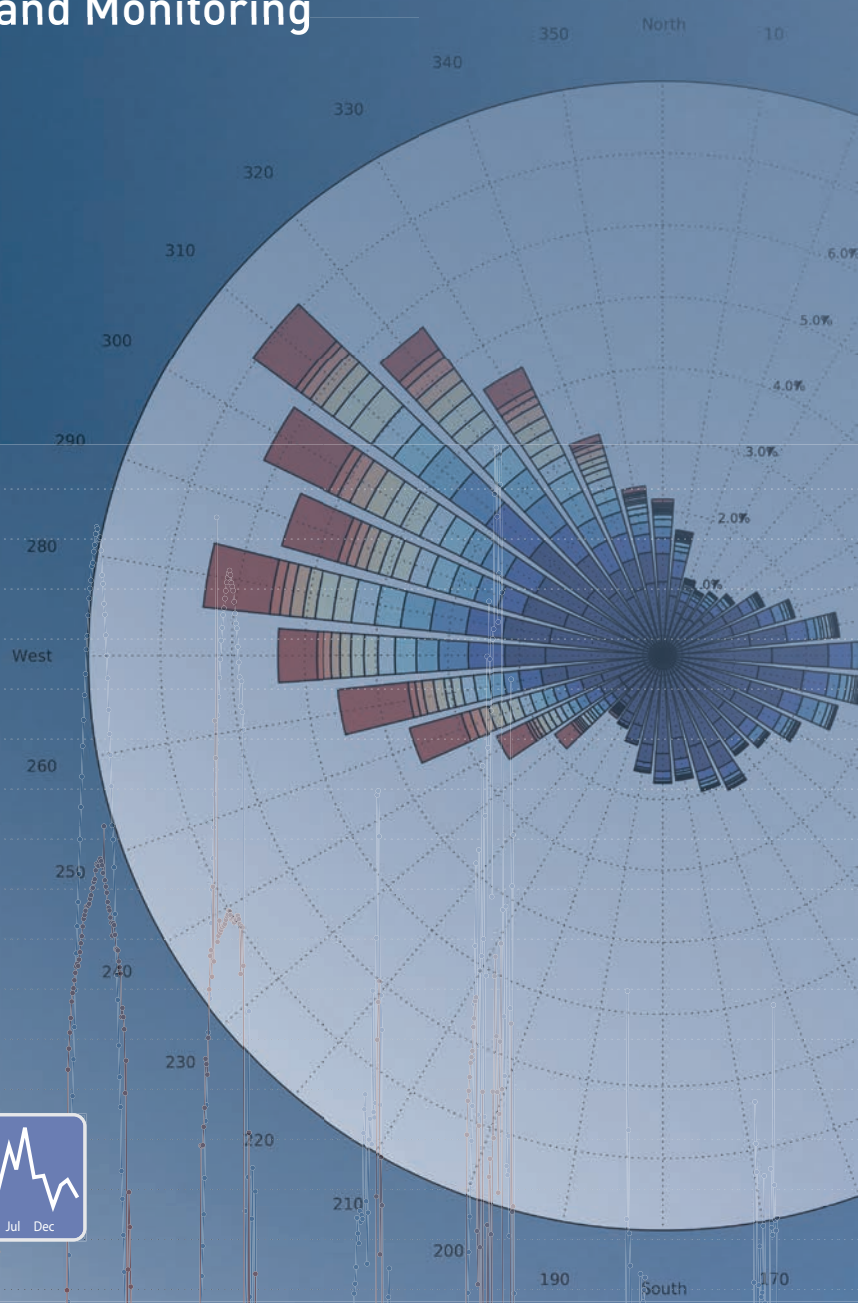
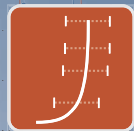
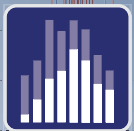
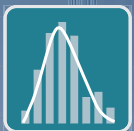
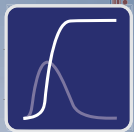
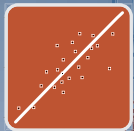
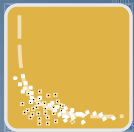


Conveniently manage your measurement campaigns online.

# AmmonitOR - Ammonit Online Report

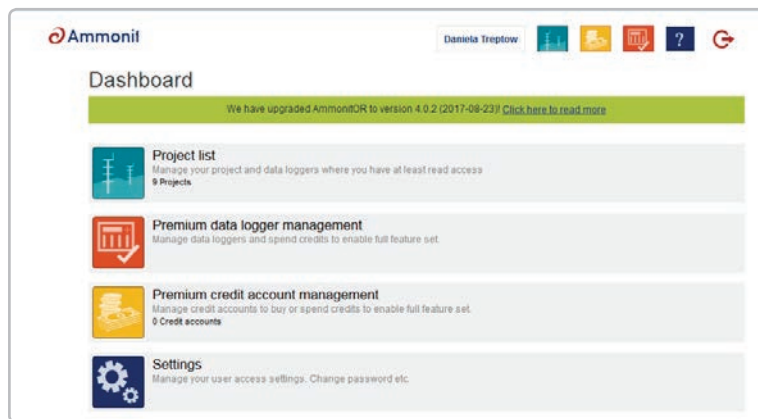
## Online Data Management and Monitoring



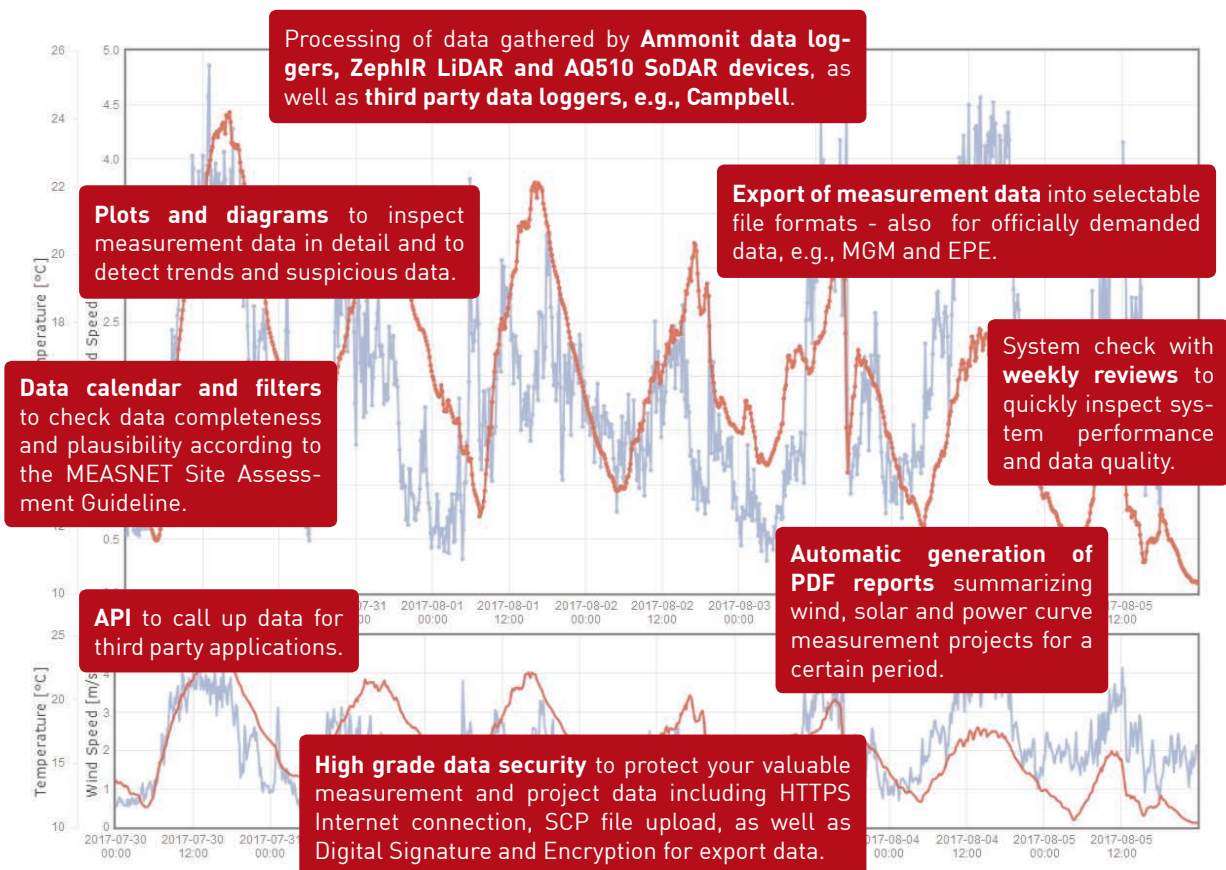
## AmmonitOR

### The online platform to conveniently manage all your measurement projects

AmmonitOR supports you in monitoring your measurement campaigns. You can reliably **manage and monitor measurement data**. With implemented **filters** you can easily **check data quality**. Various plots are available to **verify measurement data for plausibility**. In the calendar you can quickly review your data for **completeness**. Occurring difficulties like wear or low power supply can effectively be detected and fixed at an early stage. Automatically generated **PDF reports** summarize system and measurement data for a selectable period. To perform further analysis, you can conveniently **export measurement data** into a file format of your choice.



### Advanced online campaign management for more efficiency



# More than campaign monitoring. AmmonitOR is data management.

## Monitoring system performance and data quality

Is your measurement system working properly? Check it in AmmonitOR. Weekly reviews, the data calendar and different plots display in details discrepancies in the measured data and inform about missing or suspicious data.

You can easily configure filter conditions including alert messages to check system parameters and measurement data.

The screenshot displays the AmmonitOR interface. On the left, there's a sidebar with navigation options like Monitoring, Data Inspection, Documentation, Archiving, and Settings. The main area shows a 'Data Calendar for Roof Mast (D110057)' with a monthly view for 2017. A 'Filters' panel is open, showing a table of range filters for various sensors like pressure, temperature, and humidity, with columns for sensor name, range, and alert type. A large data table on the right lists specific measurements with columns for sensor name, value, range, and alert type. A line graph in the top right corner shows a data trend over time.

You can display measurement data in a number of plots, e.g., comparisons, time variations and turbulence analysis. Zoom into details by working with dynamic plots. Inspect your data to detect trends or suspicious measurement.

## Campaign documentation

AmmonitOR automatically generates PDF reports for campaign documentation. You can choose between reports for wind, solar and power curve measurement projects. The reports summarize the campaign for a selectable time period including plots, measurement and system data.

By exporting measurement data you can perform detailed analysis with third party software or generate data files in required file formats as demanded by the Turkish and Brazilian market.

The screenshot shows the 'Data logger data export' dialog box in AmmonitOR. It lists various export formats such as 'Original data file from data logger', 'CSV', 'MS Excel', 'OpenDocument Format', 'HTML', 'Plain text', 'Meteorology Genel Müdürlüğü (Turkey)', 'CEA 10/13 (Empresa de Pesquisa Energetica, Brazil)', and 'Campbell T048 format'. In the background, there are other interface elements like a 'Configuration' section and a 'Supply Data' plot showing a series of data points over time.

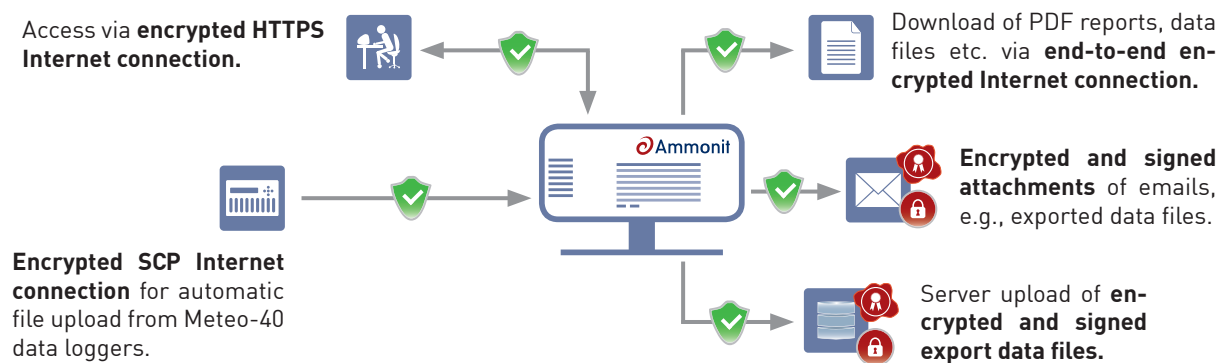
## Data protection and security for your valuable data.

### AmmonitOR and data security

In order to protect your valuable data we integrated latest security features in AmmonitOR. You conveniently access your AmmonitOR account via an **encrypted HTTPS Internet connection**. Our Meteo-40 data loggers automatically upload data files via **encrypted SCP Internet connection** to AmmonitOR. To ensure **authenticity and integrity** of your data in export files, you can **digitally sign and encrypt** your data. Hence, AmmonitOR fulfils the latest requirements of **MEASNET** for resource assessment campaigns.

A valid digital signature indicates that the message was created by a known sender (authentication) and that the message was not manipulated on transit (integrity).

Encryption is a process of encoding information in a way that only authorized parties can read it. Only an authorized recipient can easily decrypt the message with the key provided by the originator.

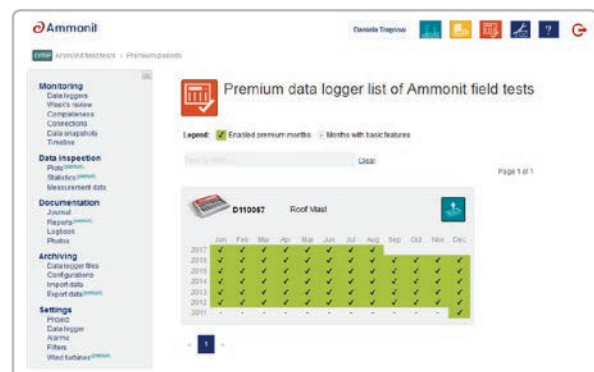


Transparency and traceability to fulfil data quality standards according to IEC and MEASNET.

### Basic features for monitoring and premium features for advanced data management

We designed AmmonitOR for monitoring of wind and solar measurement campaigns. AmmonitOR offers a number of **free features to efficiently monitor measurement campaigns**. A number of **premium features** are available for **complex data management**, e.g., generation of PDF reports, advanced plots for data analysis as well as certain data export file formats.

In order to use the premium features you require credits, which can easily be ordered in your AmmonitOR account. By spending the credits, you unlock the premium features for the selected devices and months.



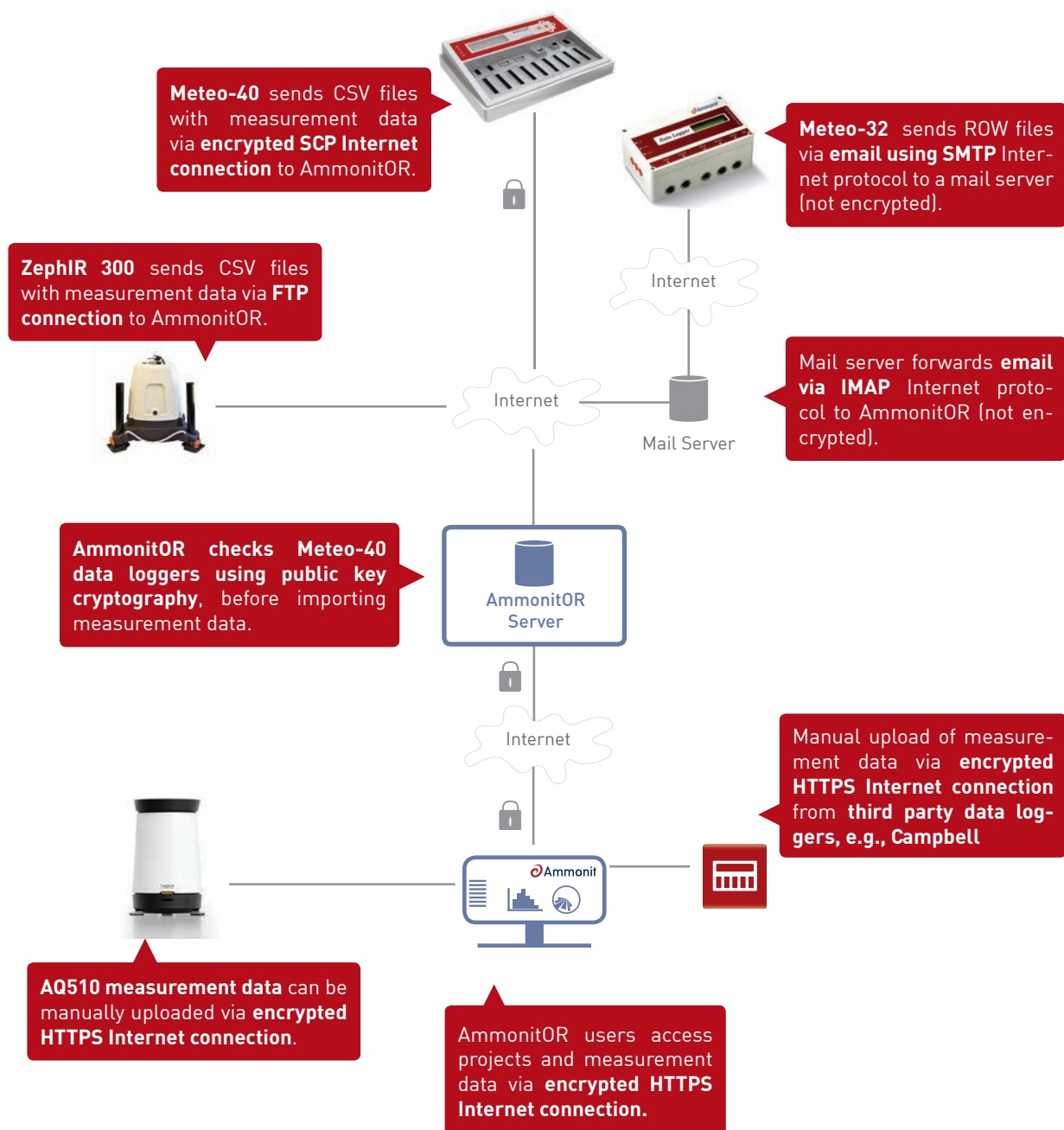
Set up your premium account and test the premium features of AmmonitOR. Benefit from various monitoring and data management features.

## Conveniently upload data from different sources

### Data processing from recording in the field to monitoring in AmmonitOR

Use AmmonitOR to conveniently manage measurement campaigns from your office desk. Once the data transfer has been configured and activated, Ammonit data loggers automatically send measurement data to the requested AmmonitOR project. You can also integrate remote sensing devices in your AmmonitOR project. ZephIR LiDAR can be configured to automatically upload CSV files with measurement data to AmmonitOR. Measurement data gathered from AQ510 SoDAR or third party data loggers can easily be uploaded via the AmmonitOR user interface.

Imported measurement data can be analysed in AmmonitOR using an encrypted HTTPS Internet connection.



## Benefit from a number of management and monitoring features

Monitoring		
System performance check	MEASNET compliant data quality check	Status information with data snapshots
Weekly system and data reviews	Data completeness check	Timeline with event documentation
Data Inspection		
Plots for visual data inspection	Wind speed analysis and histograms	Plots for solar measurements
Power curve measurement plots	Statistical data	Measurement data overviews
Documentation		
Automatic generation of PDF reports	Compact, standard, detailed reports	Weekly, bi-monthly, monthly reports
Reports for wind, solar, PCM campaigns	Photos for project documentation	Journal and logbook
Archiving		
Export of data in selectable file formats, e.g., CSV, XLS	Official file format for MGM (Turkey) and EPE (Brazil)	Upload and storage of data files incl. gust data, secondary statistic files
General		
Alarms for system parameters	Alarms for data quality filters	Filters to check data plausibility
Account Management		
Different user roles	Restricted user rights	Convenient user management
Data Security		
Encrypted HTTPS connection using industry standard Open SSH protocol	Encrypted browser sessions with SSL protocol	Encrypted SCP file upload from Meteo-40 data loggers
Public key cryptography for data imports from Meteo-40	Digital signature and encryption for data export files	End-to-end encrypted connection for file downloads