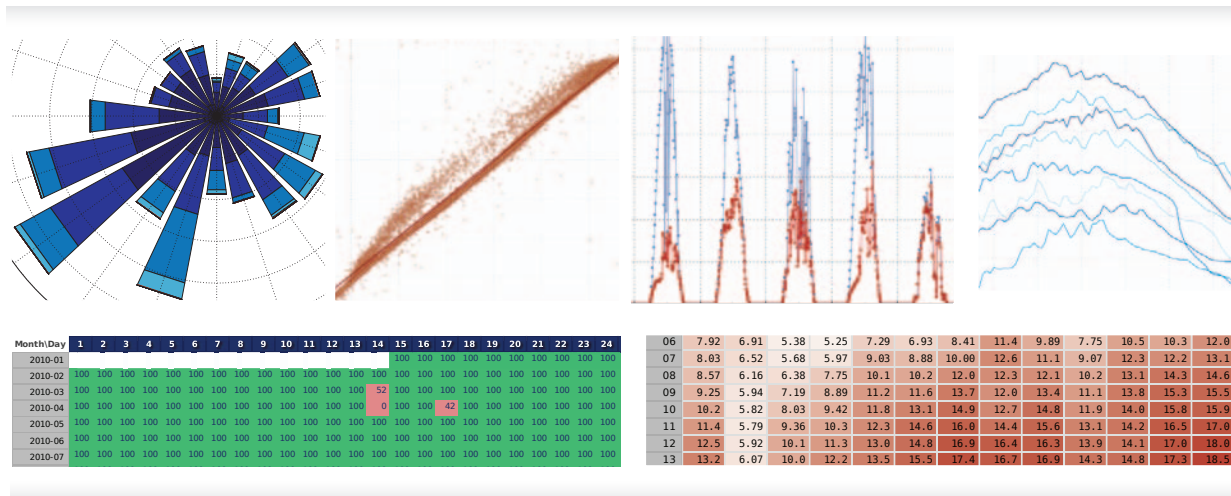# AmmonitOR - Ammonit Online Report

AmmonitOR (Ammonit Online Report) supports you in monitoring your measurement campaigns. You can reliably manage and monitor measurement data. With implemented filters you can easily check the data quality. In order to verify measurement data for plausibility, various plots are available. 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 determined period. To perform further analysis, you can conveniently export measurement data into a format of your choice.

Effectively manage and monitor your measurement campaigns.

Features for efficient campaign monitoring
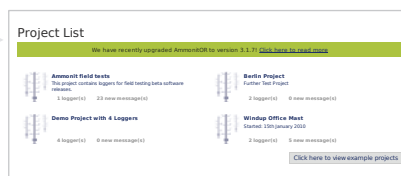
Data calendar and filters
Effectively check data for completeness and plausibility. Configurable filters indicate suspicious data.

Plots for data quality check
Inspect in detail measurement data, e.g., in XY plots, overlay graphs or correlations, to detect errors early.

Connection log
Conveniently monitor the communication behaviour of the data loggers in your measurement project. Connection failures can early be detected.

PDF reports
Generate PDF reports automatically, which summarize the campaign on a weekly or monthly basis including plots, communication and supply details.

Automatic data transmission
Measurement data is automatically transferred via SCP from Meteo-40 data loggers to AmmonitOR. Once configured, no further interaction is needed.

Data export
Easily export measurement data for determined periods into various data formats.

Data security
Access via encrypted HTTPS connection. Communications encrypted using Open SSH protocol. Browser sessions encrypted using the SSL protocol.

Effectively manage your measurement campaigns with AmmonitOR

Project, data loggers and measurement data
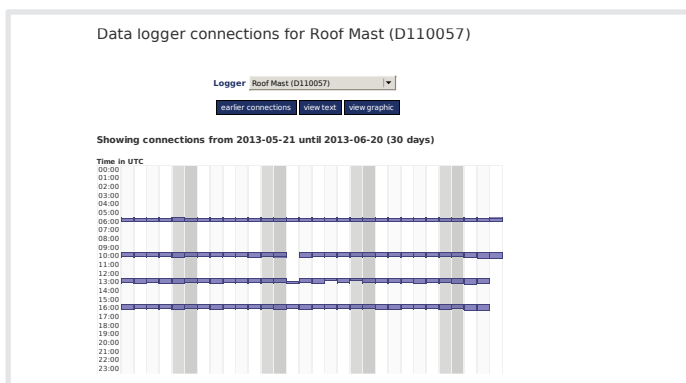

Projects and measurement data

Effectively monitor your measurement systems in projects. AmmonitOR displays sensor details and evaluations as well as for each data logger a data calendar, e.g., to quickly detect problems with the measurement system.

- Easily validate daily measurement data for evaluations, channels and statistics.
- Set filters to effectively detect suspicious data, e.g., unnatural wind speed.
- Monitor the trend of certain measurements in average tables.

System monitoring

AmmonitOR displays communication behaviour and power supply of the measurement system.

- For each Meteo-40 data logger all online connections, including data upload, online periods and emails, are displayed.
- By monitoring the power supply, low battery voltage can early be detected.
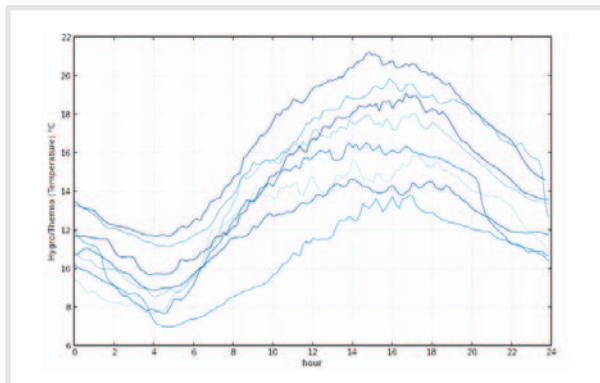

Generating PDF reports

AmmonitOR automatically generates PDF reports, which summarize important data of your measurement project. Occurring problems can be detected and solved at an early stage, e.g., wear.

- Project information at a glance.
- Monitoring communication behaviour and power supply.
- Plots with measurement data, e.g., wind speed, wind direction, temperature, barometric pressure, and turbulence intensity.
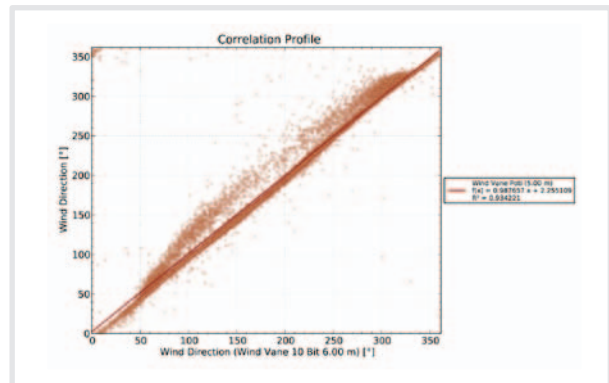
Conveniently monitor and inspect measurement data
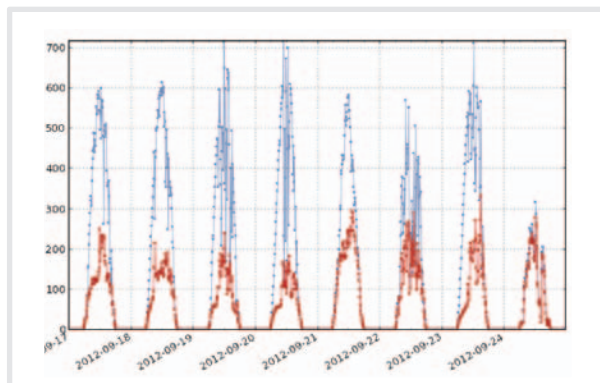
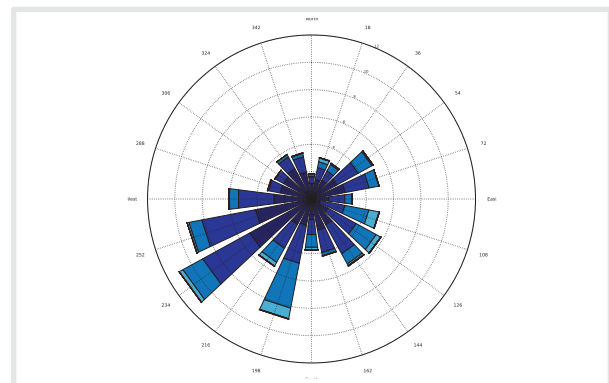### Display measurement data in various diagrams

Overlay graph for temperature

Correlation profile of top and backup wind vane

XY plots for global horizontal irradiation

Wind speed and direction in wind rose diagram

Monitor and check data quality

Check data quality by setting filters. Configure filters to **detect technical problems**, e.g., ice-effects. AmmonitOR sends **alert emails**, immediate actions can follow.
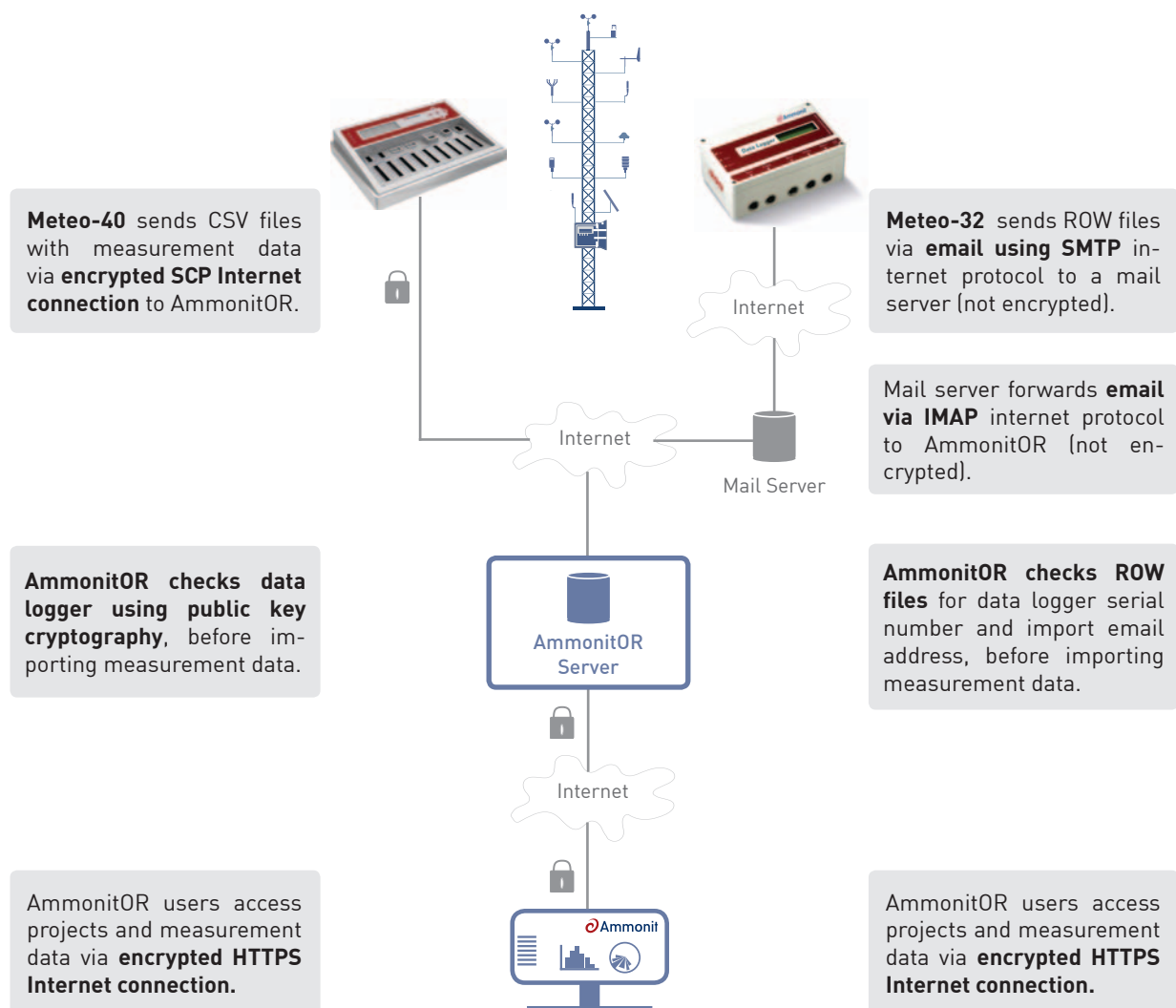
Monitor the completeness of the measurement in the **data calendar**. Days with missing data are marked. Click on the day to validate your measurements.

Interaction between AmmonitOR, data logger and user

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. AmmonitOR reliably checks and imports CSV and ROW files. If you install Meteo-40 data loggers, the data transfer is encrypted from the starting point to the import in AmmonitOR. Users access their accounts via an encrypted HTTPS internet connection.

Your valuable measurement data is securely transmitted using Ammonit!

Meteo-40 sends CSV files with measurement data via **encrypted SCP Internet connection** to AmmonitOR.

Meteo-32 sends ROW files via **email using SMTP** internet protocol to a mail server (not encrypted).

Internet

Mail server forwards **email via IMAP** internet protocol to AmmonitOR (not encrypted).

Internet

Mail Server

AmmonitOR checks data logger using public key cryptography, before importing measurement data.

AmmonitOR Server

AmmonitOR checks ROW files for data logger serial number and import email address, before importing measurement data.

Internet

AmmonitOR users access projects and measurement data via **encrypted HTTPS Internet connection.**

AmmonitOR users access projects and measurement data via **encrypted HTTPS Internet connection.**

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