



## Welcome to AmmonitOR -Ammonit Online Report our Online Platform to simplify your data communication





www.ammonit.com

**AmmonitOR** 



## Ammonit – Company Profile

- 20 years of know-how in the international wind industry, since 1989
- Ammonit offers high quality measurement equipment for wind site assessment, wind park monitoring and climate research
- Growing product range: reliable data loggers, first class sensors and data communication systems, applied by wind consultants, wind farm operators and research institutes in over 100 countries
- Bespoke measurement systems as well as standard ready to use measurement systems, for all climates and very remote areas



### AmmonitOR – what for?

AmmonitOR – Ammonit Online Report

is our user-friendly online platform to access, archive, monitor and visualise measurement data, around-the-clock, from wherever it suits you.

The software is available in request.

To register send us an email at: ammonitor@ammonit.com



### AmmonitOR – what for?

- AmmonitOR simplifies time-consuming activities, such as:
  - retrieving and archiving measurement data
  - monitoring the functions of the measurement system
- It is the perfect assistant:
  - who takes care of the boring and with low added value work and
  - informs you, on system failures with warning emails
- Simplifies all data communication, management procedures:
  - It produces diagrams and schedules for your reports
  - It performs data plausibility checks



#### AmmonitOR – how to get started

- Global data access around-the-clock with our encrypted login section
- To register send us an email at: ammonitor@ammonit.com
  Our services team will set up your personal account information
- Get started by logging into: https://or.ammonit.com/en/accounts/login/



### AmmonitOR - what it does

- Collect, access and archive your measurement data in well-structured projects files, enabling easy project navigation.
- Monitoring of your measurement system:
  - Verify that all sensors and the power supply are working well
  - Receive monitoring reports of the measurement system
  - Receive alarm messages per email /SMS, in case of problems
- Data quality checking with customised filters on sensor default, such as ice-effects, temperature, humidity, pressure performance or measuring system.



### AmmonitOR - what it does

- Performance of simple data plausibility checks
- Automatic warning emails or SMS alerting you to technical problems, such as problems with sensors, power supply or communication issues.
- Visualisation of your measurement data in schedules or diagrams of your choice (e.g. histograms, wind rose, wind speed, xy-plot).
- Adaption of your wind reports in your own corporate design.



#### AmmonitOR - what it does

- Long-term data storage of up to three years:
  - on a dedicated Ammonit server, or
  - data storage on a server of your choice is available on request
- Access control: you specify the level of access rights to individuals using the system, (e.g. read-only or full access).
- Multi-language functionality: English, Spanish, German and French (Additional languages will be offered at a later stage).



#### AmmonitOR – what it does

- AmmonitOR is an open source program. This allows for a continuous improvement of features in accordance with customer requirements.
- Technical requirements: AmmonitOR requires a GSM/GPRS-modem and data logger firmware minimum 1.9.



### AmmonitOR – how it works

• Data Collection:

Automated collection of your measurement data: E-Mail function sets address in copy to aor@ammonit.com

- Archiving:
  - Data is archived on the AmmonitOR server
  - This server is located in a data-pool, which is maintained 24/7
- Sorting / Structuring:
  - All data is stored in a data base, selectable by logger
  - Identification through logger serial-number



### AmmonitOR – how it works

Monitoring the system - AmmonitOR performs three checks:

- Communication:
  - Data has been transmitted
  - Data is complete
- Sensors:
  - All sensors are transmitting data
  - Data is plausible
- Power supply: the power supply is running well



### AmmonitOR – how it works

AmmonitOR offers three alarms & feedback instruments:

- Wrong or suspicious data is isolated in a menu on the AmmonitOR web-page
- AmmonitOR produces a daily report
- AmmonitOR generates an alarm per E-Mail:
  - Several tools allow for a email transmission to a SMS Note: the emission of a SMS often causes small costs



### AmmonitOR – how it works

#### Report and visualise your measurement data:

- Generation of brief evaluation reports
- Visualisation of measurement data with diagrams & schedules
- Diagrams: Weibull curve, Windrose & XY-Diagram
- Shows serial number of data loggers & sensors



### AmmonitOR – how it works

#### Plausibility check your measurement data:

- Data plausibility checks with customised filters.
- The following checks will be installed, at the product launch:
  - Sensor default: sensor is not transmitting signal
  - Icing effects: wind speed is 0 for at least 12 hours
  - Temperature / humidity / pressure performance
- AmmonitOR is an open source tool, (programming language Python)



### AmmonitOR – how it works

- To register send us an email at: ammonitor@ammonit.com
  - in the customer login section
  - the logger(s) is (are) registered by Ammonit
- Login in into your account with your personal password (encrypted)
- Create your new project within AmmonitOR
- Add your loggers to the new project
- Configure your logger to send Emails to AmmonitOR



### How it works:



Data Archiving Management/Storage Data Visualisation Data Monitoring Check & Reporting



## AmmonitOR – Projects & Loggers



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# **AmmonitOR – Projects & Loggers**

### How it works:

- Multiple users can work together on different projects
- Users can create an unlimited number of projects
- Each logger is assigned to exactly one project



## AmmonitOR – Project Lists & Project Details



measuring wind power

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## **AmmonitOR – Measurand List**

C A https://or.ammonit.	com/projects/3/data/n	neasurands/?dtf=2000	-05-07&dtt=	=2010-06-	-06&logge	r=3			
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Projects - Wrangel - Data - <u>Measurands</u>									
	-								
Projects Edit Project Delete Project List Projects	Browse measu								
Loggers List Loggers New Logger	List with Status	from 2000-05-07	Logge	ors 0435 🛟					
Messages List Messages	Checked (Filter) Suspicious (Filter) Error (Filter)	2000-05-07 to 2010-06-06		••••					
Data Data List Measurand List Raw Data Files	Checked (Üser) Suspicious (User) Error (User)								
Plots Wind Speed XY Plot Wind Direction Speed Direction Dots	Search						1 2	2 3 4	5 🕨 🕨
Speed Direction Bar	Date/time	Status	Avg (a)	Min (i)	Max (x)	Sigma (S)	Unit	Sensor	Logger
Filters Filter List New Standard Filter	2001-08-24 23:50:00	Checked (Filter)	7.5000	-	7.6000	0.2000	m/s	<b>s</b> 1	C080435
New Logger Mail Filter New Comparison Filter	2001-08-24 23:50:00	Checked (Filter)	7,1000	-	8.1000	0.1000	m/s	s2	CO80435
	2001-08-24 23:50:00	Checked (Filter)	6.6000	-	7.0000	0.3000	m/s	s3	CO80435
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#### **AmmonitOR**



# AmmonitOR – Message List

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Ammonit			Home	Settings	Help Logou
Projects + Skalitzer Str. + Message					
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Projects Edit Project Delete Project List Projects	Messages for project: Ska	alitzer Str.			
Loggers	[Mark all messages as read] [Deactivate al	II messages] [Activate all messages]			
List Loggers New Logger	Date/time		Message	Alert sent	Options
Messages	Wed, 25 Nov 2009 21:16:37 +0100	Series of suspiciously low values received from Ammonitor s2.		no	[deactivate]
List Messages	Wed, 25 Nov 2009 19:16:37 +0100	Series of suspiciously low values received from Ammonitor s2.		no	[deactivate]
Data Data List Measurand List Raw Data Files Plots Wind Speed XY Plot Wind Direction Speed Direction Dots Speed Direction Bar Filters Filter List	Wed, 25 Nov 2009 17:16:38 +0100	Series of suspiciously low values received from Ammonitor s2.		yes	[deactivate]
	Wed, 25 Nov 2009 15:16:38 +0100	Series of suspiciously low values received from Ammonitor s2.		yes	[deactivate]
	Wed, 25 Nov 2009 13:16:39 +0100	Series of suspiciously low values received from Ammonitor s1.		no	[deactivate]
	Wed, 25 Nov 2009 12:16:39 +0100	Series of suspiciously low values received from Ammonitor s2.		no	[deactivate]
	Wed, 25 Nov 2009 11:16:39 +0100	Series of suspiciously low values received from Ammonitor s2.		yes	[deactivate]
	Wed, 25 Nov 2009 11:16:38 +0100	Series of suspiciously low values received from Ammonitor s1.		no	[deactivate]
	Wed, 25 Nov 2009 11:16:38 +0100	Series of suspiciously low values received from Ammonitor s1.		yes	[deactivate]
	Wed, 25 Nov 2009 11:16:37 +0100	Series of suspiciously low values received from Ammonitor s1.		no	[deactivate]
New Standard Filter New Logger Mail Filter					
New Comparison Filter					
Site Map				(EN S	Change languag
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			@ 2010 Am	monit Gesellscha	ft für Messtechnik m

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## AmmonitOR – Filter List

OAmmonit Projects - Wrangel - Filter							Hom	e <mark>Settings</mark>	Help Logout
Projects	Filter	S							
Edit Project Delete Project List Projects					New	standard filter "Wrangel" created successfully.			
Loggers List Loggers	Stand	ard filters							
New Logger Messages	Active	Sensors	Min. value	Max. value	Threshold	Message	Alert type	New status	Options
List Messages	yes	s2, s3, b1, h1		24	1	This is just a test filter message, please pay no attention.	archive and email	Checked (Filter)	[deactivate] [edit] [delete]
Data Data List	yes	b1, h1, r1,	1022	1088	20	Please check your flange.	archive and email	Error (Filter)	[deactivate] [edit] [deiete]
Measurand List Raw Data Files	no	s3, b1, h1	100	104	1	This is another test standard filter, it is of less relevance.	archive and email	Checked (Filter)	[activate] [edit] [delete]
Plots Wind Speed	yes	d1, d2	0	0	1	Wind Vane potentially frozen.	archive and email	Suspicious (Filter)	[deactivate] [edit] [delete]
XY Plot Wind Direction	Logg	er mail filte	ers						
Speed Direction Dots	Active	Project	Loggers	Max time i	n hours Me	ssage Alert type Opti	ons		
Speed Direction Bar	yes	Wrangel	CO80435	1	New	w mail received from loggers.archive and email[dead	ctivate] <u>[edit]</u> [dei	ete]	
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New Logger Mail Filter New Comparison Filter	i nere a	re no compar	ison niters. C	create new o	omparison filte	r			
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## AmmonitOR – Choose your Type of Visualisation



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- Visualise your data with selected diagrams:
  - Wind Direction Channel



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• Visualise your data with selected diagrams:

Wind Speed Wind Direction



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• Visualise your data with selected diagrams:

Wind Speed Wind Direction



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• Visualise your data with selected diagrams:

Histogram



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• Visualise your data with selected diagrams:

XY- Plot



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**Register by emailing us:** 

ammonitor@ammonit.com

Thanks for your attention !

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