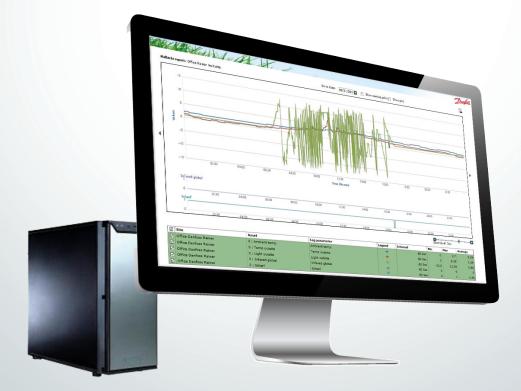




User Guide

Enterprise Manager AK-EM 800

ADAP-KOOL[®] Refrigeration Control System





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Document history

Document	Notes
USCO.PI.R1.G1.02	First document release
USCO.PI.R1.G2.02	Minor updates
USCO.PI.R1.G3.02	Updates. v. 1.21
USCO.PI.R1.G4.02	Updates. v. 1.31
USCO.PI.R1.G5.02	Updates. v. 2.01
USCO.PI.R1.G6.02	Updates. v. 2.11
USCO.PI.R1.G7.02	Updates. v. 2.21
USCO.PI.R1.G8.02	Updates. v. 2.23
USCO.PI.R1.G9.02	Updates. v. 2.24



Introduction

The AK-EM 800 is an Enterprise Management solution from Danfoss for the food retail industry. The AK-EM 800 is a multi-user, multi-site server PC application which provides alarm management and automatic data collection, together with reporting features.

This document is designed to guide you through the installation of your AK-EM 800. This guide will also cover the installation of the included AKM agent, which is required to support legacy Danfoss control devices (described later in this guide).

Target PC and software specifications

The minimum computer specification is detailed below. AK-EM 800 can run on a real and also on a virtual server. Database and application can be installed on different machines, but both machines must be in the same local area.

Product	Configuration	Load factor	Details		
AK-EM 800HardwareServer (same forAKM-Agent)		<50 networks	• Processor - i3 OR i5 • RAM – 6 GB or above • Storage – 300GB or above		
		>50 networks	 Processor – i5 OR i7 OR above RAM – 12 GB or above Storage – 1 TB or above 		
Software		<50 networks	 Windows 7 64 bit / Windows Server OS 64 bit (AK-EM 800 only) Tomcat memory – 4 GB 		
		 >50 networks • Windows 7 Enterprise 64 bit / Windows Server 2008 R2 or Above (AK-EM 800 only) • Tomcat memory – 4 GB or above 			
Client Computer Configuration	Browser	Mozilla Firefox 39.0 or higher IE 11			
	Screen resolution	• 1024*768			
	RAM	• 2 GB or above			

Front End	Versions Supported
AK-SC 255	2.211 or higher
AK-SC 355	3.091 or higher
AK-SM 800	8.011 or higher
АКМ	7.41



System Layout

Direct connection (AKM agent not required)

The AK-EM 800 provides a direct communications connection path to AK-System Manager 800 series of front end controllers. AKM agent installation not required when using the AK-SM 800 series.

In addition, the Danfoss AK-SC 255/AK-SC 355 (see minimum software specs in table opposite) are also supported via direct connect path.

Legacy support (AKM agent required)

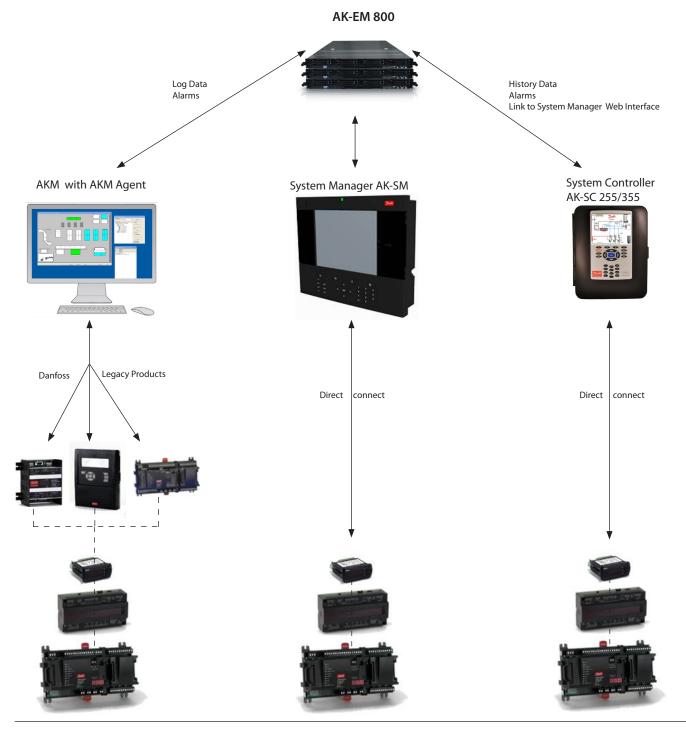
For applications that use AK-SM 720, AK-SM 350, AKA Gateways, and the Danfoss m2 (known as legacy systems), it is still possible to connect to the AK-EM 800, via the use of the AKM-Agent. The use of the AKM agent allows for alarms and history logs from these systems to be synchronized between the existing AKM PC installation and the AK-EM 800.

Under this application the AK-EM 800 is connected and communicates to an installed AKM agent, which must be installed on designated AKM PC. There can be more than one AKM PC installation that communicates to the AK-EM 800. Each AKM PC will require installation of the AKM agent.

Direct connection AK-SC 255 / AK-SC 355 / AK-SM 8xx

Front End	Versions Supported
AK-SC 255	2.211 or higher
AK-SC 355	3.091 or higher
AK-SM 800	8.011 or higher
AKM	7.41

The following picture describes the System Layout.



User Guide USCO.PI.R1.G9.02 © Danfoss 2017-10

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Installation of AK-EM 800

Up to max. 50 sites the installation can be done on one single PC. Above 50 sites a distributed installation (application and database on 2 different PC's) is strongly recommended.

To explain how to make a distributed installation and also how to make upgrades, please check the document "AK-EM 800 installation guide"



ile Edit View Tools Help	System and Security > System	✓ 4 ₉ Search Control P S
Control Panel Home Device Manager Remote settings System protection Advanced system settings	View basic information Windows edition Windows 7 Home Premiur Copyright © 2009 Microso Service Pack 1 Bet more features with a n	n ft Corporation. All rights reserved.
	System	
See also	Rating:	5,9 Windows Experience Index
See also Action Center	Rating: Processor:	5.9 Windows Experience Index Intel(R) Core(TM) i7 CPU 920 @ 2.67GHz 2.67 GHz
Action Center	Processor:	Intel(R) Core(TM) i7 CPU 920 @ 2.67GHz 2.67 GHz

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Login to AK-EM 800

The AK-EM 800 installation creates a Desktop icon. Use the icon or type in your browser

http://ipadress:8080/AKEM_800

lpadress is from the actual AK-EM 800 system

Default Log on name: **admin** Default Password: **danfoss**



At the first login the user will then be prompted to change the password.

New password must be 7 to 15 characters. (numbers and letters) Spaces are allowed.

Please change your password.	
New password: Retype new password:	
	Save

If AK-EM 800 is not licensed, a license is required (see chapter require license) and AK-EM 800 will start in following window. It is not possible to use AK-EM 800, before the license is activated.

Configuration							
System							
Email settings	General settings	Schedule settings	Backup settings	Archive settings	Request license	Activate license	
	ill be generated with th	e saved data and licens	e will be valid for this	machine only.			Save Generate UIF
Customer number:		!					
Purchase order:							
Customer name:		!					
Contact name:		!					
Contact phone:		•					
Contact email:							
Number of sites for	license: 50						
License period (in y	ear(s)): 1		License	e info		×	
			License	is not available or exp	ired. Ok		

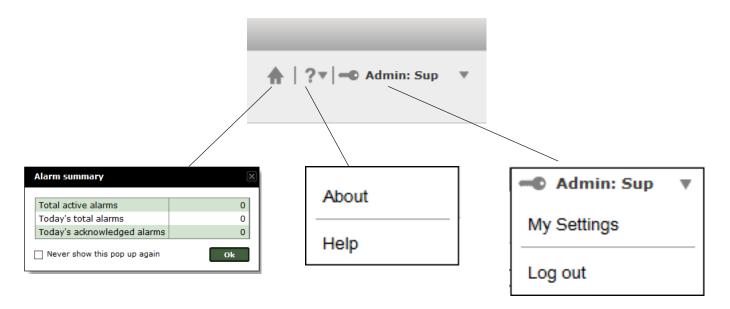


Layout

AK-EM 800 is using Mega drop-down selection. Main fields are Overview, Alarms and Configuration. Mouse over will present the Sub menus.

Overview	Alarms	Configuration		
Alarm Lists		General	Site	Users
Current Alarms	A Historical A	Destinations	Site	Users
		System Settings	Chain	Contractors
		Alarms	Schedules	
		System Alarm	Reports	
Alarm count: 153		Alarm Routes		

On the top right corner there are three quick links buttons.





Function layout & filter

Each function is separated into 1 or more pages.

Select Configuration -> Users -> Users

General	Site	Users
Destinations	Site	Users
System Settings	Chain	Contractors
Alarms	Schedules	
System Alarm	Reports	
Alarm Routes		

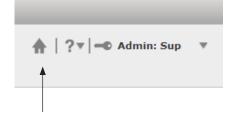
E				Danfoss
Ov	erview Alarms Configuration			
User	rs Users User Group My Settings			♠ ?▼ -● Admin: Sup ▼
Filte	rr Select field: None 💌 * Apply	Clear	Add	Edit Copy Delete Show: 50 ¥
		User Group	Status	
	Administrator	Administrators	Offline	

A filter might is available if relevant

Quick Links

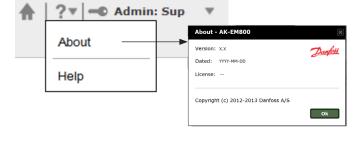
There are three quick links in the top right corner of the screen.

If the Home button is pressed – it would lead to the function defined as the home page for that user.



If the Help button is pressed – it would open a new menu with two options.

If the Help option is chosen the User Guide for the AK-EM 800 will be opened in a separate browser tab



If the "My Settings" option is chosen it will lead you to the User settings page for the user who is logged on.

♠	?▼	🗝 Admin: Sup	•
		My Settings	
		Log out	



Overview

The Overview menu is where you work with History data.

Site List collect logs	- A list of all created sites and possibility to
Audit Trail	– A list of significant events in the EM 800 system
Reports	– For viewing collected logs and making reports
Graphs	- Create graphs and save them as a report

Overview	
General	
Site List	
Audit Trail	
Reports	
Graphs	

Alarms

The Alarms menu is where you can manage received alarms.

Alarm Lists Suspended Sites / Assets For managing received alarms
 For suspending alarms from a site or assets

Alarms	Configura
Alarms	
Alarm Lists	
Suspended Sites	s / Assets



Configuration

The Configuration menu is where you setup the AK-EM 800

<i>General</i> Destinations System Settings	 For adding E-mail and Text message receivers For Email server settings, General settings, Folder setting for scheduled report saving, Backup settings, Archive settings, requesting and activation of the license
Alarm	
System Alarm	 For changing priority settings for system alarms
Alarm Routes	 For making changes in the alarm forwarding rules
Site	
Site	- For adding / changing sites
Chain	 For adding / changing chain details
<i>Users</i> Users Contractors	– For adding / changing user details – For adding / changing contractors details
<i>Schedules</i> Reports	- To setup send reports on recurrent basis

General	Site	Users
Destinations	Site	Users
System Settings	Chain	Contractors
Alarms	Schedules	
System Alarm	Reports	
Alarm Routes		

Destinations

This is where the destinations are added. These destinations can be used for various functions like Report forwarding, Alarm forwarding etc.

Forwarding is supporting only Email

Select Configuration -> Destinations -> Email

Press "Manage"

Overview	Alarms	Configuration			
Alarm/Report	Destinations				🔺 ? 🖛 📥 Admin: Sup 🛛 🔻
Email					
					Add Edit Delete
					Show: 50
🗌 Name 🕇			 Description	Email address	

For adding a new entry select the "Add" button

Adding a Destination

- 1. All the fields in this column are required fields and must be filled out. Today it's not possible to change Time zone. That's for future releases only.
- 2. The selections in this field can be made according to preferences
- 3. When all required settings have been made the entry must be saved

Overview	Alarms	Configuration				
Back Edi	t email destination[John Jo	hnson]				🔺 ?v -•• Admin: Sup
Name:	John Johnson	Time zone:	Site local			Sav
Description:	Service manager	Language:	English	V		
imail:	Johnson@comp.com	Temperature units:	Celsius	V		
		Pressure units:	bar			
		Light units:	lux			
		Date format:	M/d/yyyy			
		Time format:	h:mm tt			
		Number format:	d1.d2			



System Settings

This is where settings related to the AK-EM 800 must be entered.

In system settings the user can add/change settings for Email, general details, schedules, backup, archive and licensing.

Select Configuration -> System Settings

Overview	Alarms	Configuration				
System Settings						
Email settings Ge	neral settings	Schedule settings	Backup settings	Archive settings	Request license	Activate license
Disable email						
Email server setup						
Select server type:	SMTP	V				
Email server (SMTP):	smtp.googlema	ail.com	SMTP port:	465		
Authorization						
EM800 user email id:						
Account:	EM800.test@gr	nail.com				
Password:						
Select security type:	SSL	V				
Test recipient email id:	[Test			
Attachment size(in MB):	4					

- 1. Select which type of server is used
- 2. Add server details (e.g. Gmail, GMX,..)
- 3. If the server only allows authorized users this tick mark must be selected and details added
- 4. To test the entered details a Test mail can be sent to verify if entered settings are correct
- It is possible to use the following type of Email servers:
- 1. No security type
- 2. SSL Encrypted SMTP Server
- 3. TLS Encrypted SMTP Server
- 4. Unauthorized SMTP Server
- 5. Microsoft Exchange 2010 Server.
- a. If the Exchange server is chosen the fields above will be different but intuitive.
- b. Exchange server only supports https not http



General Settings

This is where settings related to alarms are entered.

Select Configuration -> System Settings -> General Settings

Auto acknowledge inactive alarms:

If an alarm should be acknowledged automatically when it is inactive. The alarm will acknowledge the alarm in the front end as well (except AKM sites).

Alarm repeat count duration

When this setting is enabled with a time value, the AK-EM 800 system will monitor every alarm and add a counter detail, which shows how many times this alarm has occurred within the time set here since the last alarm has been received. Example:

If the value here is set to 1 hour and an alarm is received at 7:00 Then AK-EM 800 will see how many times that alarm has been received from 6:00 to 7:00. (see picture Alarm repeat count). Even if the time now is 9:00 it will still calculate from 6:00 to 7:00, because the last time it received this alarm was at 7:00.

Allowable logdata gap (in minutes)

Will ignore data gaps in logs > XX minutes. Max. time is 1440 minutes.

Dependent on the front end and the usage of the controller data gaps are possible. If this is the case and the user is not interested to get a system alarm for any data gap, this value should be adjusted.

License notification period (in days)

When the license will expire, the user will get on every logon a notification (min 14 days, max 60 days before expiring)

Synchronize SC/SM time zone offset

AK-EM 800 is able to synchronize the time zone offset of AK- SC 255/AK-SC 355 and the SM800 series based on server time **Synchronize SC/SM clock**

AK-EM 800 is able to synchronize the clock of AK-SC 255/AK-SC 355 and the AK-SM 800 series based on server time.

Generate system alarm for routing failure:

Enables/disables AK-EM 800 to create system alarms in case of alarm routing issues

Start log collection for newly added parameters

In case new logs were added in the front end and the user wants to collect them automatically set this parameter to YES. The user will still be informed with the system alarm "conflict" if logs are changed

Schedule Settings (for reports)

Select Configuration -> System Settings -> Schedule Settings

In the schedule report section the user will be able to send a report as an attachment to an Email. But he will also be able to save a report on a scheduled basis in a free selectable folder. This can be a local folder on the AK-EM 800 server, but also a network drive.

Overview	Alarms	Conf	igura
System Settings		200	
Email settings	General setting	js Schee	lule :
Auto acknowledge i	nactive alarms:	Yes	V
Alarm repeat count	6 Hours	•	
Allowable logdata g	ap (in minutes):	60	
License notification	period (in Days):	60	V
Synchronize SC/SM	I time zone offset:	No	•
Synchronize SC/SM	I clock:	No	V
Generate system a failure:	arm for routing	Yes	V
Start log collection parameters:	for newly added	No	V

"Alarm repeat count"

Count	Lim
1	Alar
	Alar
	2 Alar
1	Alar
1	Alar
1	Alar
1	Alar
1	Alar
	2 Alar
2	2 Alar
1	Alar
1	Alar
1	Alar
	2 Alar
	Alar





Backup Settings

Select Configuration -> System Settings -> Backup Settings

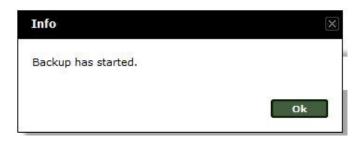
This feature allows the Superadmin to create a manual or scheduled backup of the system.

The Superadmin has all rights at any time, and can not be deleted (default:admin/danfoss). There are several functions reserved for Superadmin only like report schedule settings, backup, archiving and licensing and alarm clear in one go without acknowledge.

System Settings						
Email settings	General settings	Schedule settings	Backup settings	Archive settings	Request license	Activate license
Schedule Backup						
		_		_		
	/eekly	¥	Day: Sunday	16:00 🖨	hh:mm	
Select drive: C:	:\	▼				
Folder name: Sa	ave EM800 data\Back	kup				
Format: Ve	er_yyyyMMddhhmmss	_akem_800				

This backup is always a complete database dump and not an incremental one.

The user can create a schedule on a daily, weekly or monthly basis (Attention! AK-EM 800 will NOT delete any old backup file). To create such a backup, the Superadmin must select time, folder name the format and if the user likes to compress the backup file. If everything is selected, he must save his selection or he can make a backup on demand only (press backup now) In that case he will get a message and his selection is not saved





Restore

To restore a backup to AK-EM 800 you can use the SQL order (if known) or a tool, which comes together with AK-EM 800.

The tool is available in the subfolder named "RestoreTool" in the AK-EM_800 folder.

The folder contains an executable JAR file and two batch files. Please start the batch "RestoreTool" and follow the instructions.

It's important to stop the Tomcat service (see installation guide)

Select the backup file (press select path) and afterwards press the
Restore button. Dependent on size of the file it will take several
minutes.

If finished, restart the Tomcat service.

ckup/Version 2.0022 20141126060823 akem 800.sql	Select path
	Restore
ISTRUCTIONS	
1.Please take the backup of the current database if in wo	rking condition
2.Shutdown the AKEM800 server by stopping Tomcat se	vice
3.Select the database dump file you wish to restore	
 Please DO NOT close the command prompt running in and until restore is completed 	i minimized mode
 Please DO NOT close the command prompt running ir and until restore is completed Restart tomcat service after the restore operation 	ı minimized mode

AkEm800RestoreTool

RestoreDump

RestoreTool

🍰 Select file p	ath.
Suchen <u>i</u> n:	🖹 Backup 💽 👔 🏠 📳 🖉
Version,	_2.0022_20141126060823_akem_800.sql
Dateiname:	Version_2.0022_20141126060823_akem_800.sql
Dateityp:	sql File
	Öffnen Abbrechen



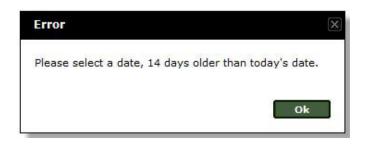
Archive Settings

Select Configuration -> System Settings -> Archive Settings

Overview	Alarms	Configuration				
System						
Email settings	General settings	Schedule settings	Backup settings	Archive settings	Request license	Activate license
Archive till date:	09.15.2014					

This feature allows the Superadmin to archive (zip) the database. This action will move all data in a different database. They are still visible, but it will take more time to present the data in a report. It is only possible to archive data which are 14day old or older. If the user selects e.g. yesterday, he will get an error message. It is not possible to schedule the archive.

To create an archive, the Superadmin must select a data in the past (min. 14 days old) and press the archive now button.





Request license

Select Configuration -> System Settings -> Request license

System Settings

 Email settings
 General settings
 Schedule settings
 Backup settings
 Archive settings
 Request license
 Activate license

 Note:
 Activate license
 Activate license
 Activate license
 Activate license

In order for your AK-EM 800 to function correctly a suitable valid license needs to be installed.

Use this screen to generate a User Identification File (UIF), which will be used by Danfoss to generate your unique AK-EM 800 license.

After entering your details you must press Save. Then you need to press Generate UIF to create the file to be sent to Danfoss for processing at el_licensing@danfoss.com.

Danfoss customer number:	Danfoss
Danfoss purchase order:	123ABC
Customer name:	ABC123456789
Contact name:	Mr. Danfoss
Contact phone:	+123456789
Contact email:	danfoss@em800.com
Store number:	RMDEMO
Post code:	46569
Number of sites for license:	500 🔻
License period (in year(s)):	5 🔻

AK-EM 800 Version 2.0.1 and higher introduces a new licensing model. A valid license must be purchased from Danfoss in order to operate your AK-EM 800. The license model offers the ability to only pay for functionality or number of sites you require. Please contact your Danfoss sales representative for full descriptions of the different license options.

In order to create a unique license (based on your PC/Server hardware credentials) and paid level of functionality, a custom file is required to be generated within your EM800 and mailed to the Danfoss license office. Once Danofss receives this information, a unique license will be generated by Danfoss and sent back for activation within your AK-EM 800. Upon activation of the license, functionality and site capacity will be unlocked for the duration defined at the time of license creation. The following section describes the overall workflow.

Workflow:

- 1. Download and install AK-EM 800 software from Danfoss.com (http://food-retail.danfoss.com/knowledge-center/software/ ak-em-800/)
- 2. Fill in all fields (all of them are mandatory)
- 3. Press the save button(will be confirmed by a popup window "User information saved successfully"
- Press the "Generate UIF" button. (UIF = user information file). Depended on your browser the user is forced to save the file in a directory of his choice.

The file contains unique information based on the install server or PC hardware and user details previously entered.

```
{"Host Id":"invalid","Contact
name":"User","No. of sites":"500","Purchase
order":"KB00001","Email":"user@danfoss.
com","Customer number":"3150141092","Customer
name":"Danfoss NAM","Primary contact":
"3150141092", "OS_Platform":"2","License
period in years":"5"}
```

When the UIF file is created, forward it to el_licensing@danfoss.com

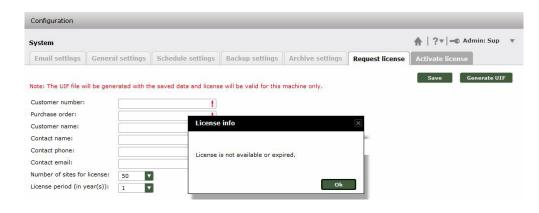
Danfoss will process the UIF file and will respond with a license file, which has been generated based on the specific hardware and license purchase previously entered. The license file has the extension .lic (e.g. 3_ disksn=S13TJ90S104587.lic) (e.g. 3_ disksn=S13TJ90S104587.lic)

The following section will describe how to deploy the .lic file send by Danfoss.

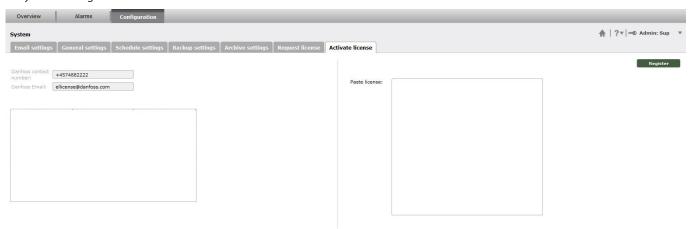


Activate license

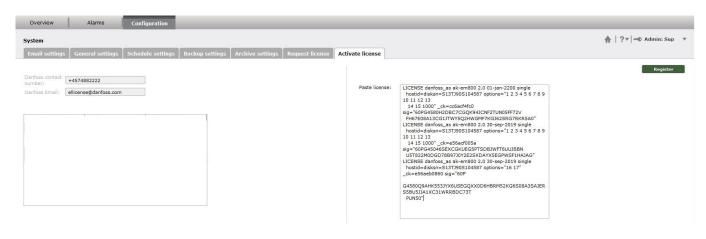
The Superadmin starts AK-EM 800 1st time (default credentials admin/danfoss) or restarts his updated AK-EM 800. If no license is ordered, he can see only following screen. ("License is not available or expired"



For license entry or updates the user should select Configuration -> System Settings -> Activate license



To activate the received license, open the file with a text editor (e.g. Notepad) and copy the complete content in the clipboard (mark all then copy) and paste it in the "Paste license box on AK-EM 800.





Press now the "Register" button and the Superadmin should get following message:

Success	
License has been registered successfully the server to make it effective.	. Please restart
	Ok

Now the Superadmin can see the license details and the Expire date.

Overview	Alarms	Configuration	_	_	_	_
System Settings						
Email settings	General settings	Schedule settings	Backup settings	Archive settings	Request license	Activate license
the file contents. Paste the contents in	the box below and th	e open the license file w nen press the Register b	utton.	ed and copy		
		hes your computer profil that the UIF was generat		work.		
Danfoss contact num	ber: +4574882222					Paste license:
Danfoss Email:	el_licensing@di	anfoss.com				
Feature name	Туре	Expiry date				

Feature name	Туре	Expiry date
Base license	Complete access	31/12/2020
Food quality reports : Temperature quality	Complete access	31/12/2020
Food quality reports : HACCP	Complete access	31/12/2020
Web services	Complete access	31/12/2020



System Alarm Settings

In addition to alarms from the Danfoss front end controllers, the AK-EM 800 can generate System alarms and warning messages that can be sent by the AK-EM 800 System. And on this page it is possible to choose the severity of them.

Select Configuration -> Alarms -> System Alarm

Overview Alarms Configuration		
System Alarm		♠ ?▼ -● Admin: Sup ▼
		Save
System alarms and warnings *	Priority	Action code
AKM system alarm	Normal	15
Alarm from unknown site	Normal	15
Alarm routing failed	Normal	15
Backup/Archive error	Normal	
Change in System Manager	Normal	
Error while communicating with front end	Normal	15
License expired	Normal	
Log data collection failure	Normal	
Log data gap found	Normal	15
Log/Asset conflict	Normal	
Low disk space	Normal	15
No contact from site	Normal	15
Report routing failed for some destinations	Normal	15
Scan failure	Normal	
Schedule error	Normal	
Version change at Site	Normal	15

The priority can be chosen from Normal to Critical

And an appropriate Action code can also be chosen from 1-15

The Priority can be used in the current alarm screen as a sorting criteria.

The Action code can be used for alarm forwarding. (see chapter alarm routes)

Or the particular alarm type can be disabled.

Alarm Routes

This is where you setup alarm forwarding rules by E-mail to previously created Destinations.

There is a list of all ready created rules which can be used to copy from or completely new rules can be created.

Select Configuration -> Alarms -> Alarm Routes

Ov	verview	Alarms	Confi	guration									
Alarr	m Routes								- 1	h ?▼ -	C Ad	dmin: S	up '
							122						
								Add	Edit	Сору	Dele	ete	Done
	Rule name 🏅							Add		Copy No. of sites		ete No. of r	
-	Rule name * Weekend Service N	1obile											
		1obile						Active			r		

For adding a Routing rule, click on the "Add" option.



Alarm routes (continued)

Overview	Alarms	Configuration						
Back Add	i alarm route rule						♠ ?▼ -© Admin	: Sup 🔻
Name: S	ervice mobile	!						Save
Site Selection	on Schedule Receiv	ver Action Code						
Filter:		Apply						
Available site	95	Expand all	Sele	ected sites				
Uncatego	orized	•		Site		Chain		
	M ALARM SITE				No items to	show.		
		*						

First the sites that this rule should be used for must be selected.

- 1. Define a name for the rule
- 2. Choose the sites
- 3. Assign by clicking on the green "Right" arrow.

Then a schedule for when this rule should be affective must be defined

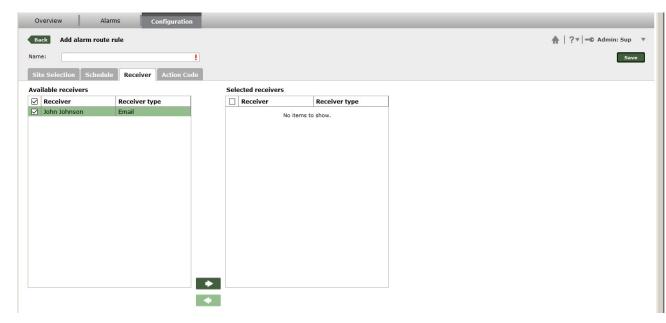
Overview	Alarms	Configuration		
Back Add al	arm route rule			🛧 ?▼ 🗝 Admin: Sup
Name: Servi	ce mobile			Sav
Site Selection	Schedule Rec	eiver Action Code		
Daily schedule	Special event			Schedule for Monday
Select full sched	lule (24/7) Yo	u can also select a	ll days	Time
Status :			Edit	From: 17:00 🔶 hh:mm To: 23:59 🔶 hh:mm
0	2 4 6	8 10 12 14	16 18 20 22 24	From: 00:00 🖨 hh:mm To: 06:00 🖨 hh:mm
Monday			l	From: 00:00 🖨 hh:mm To: 00:00 🖨 hh:mm
Tuesday Wednesday				
Thursday				
Friday				Apply time to
Saturday				Monday 🔽 Friday
Sunday				🗸 Tuesday 🗌 Saturday
				🗸 Wednesday 🗌 Sunday
				✓ Thursday
				Ok Can

- 1. Press the edit button or double click on a specific day and make the necessary selection for the schedule. The time values can be from 00:00 to 23:59
- 2. When done save the values to the time table by pressing OK



Third step in creating a forwarding rule is to select the recipients of the alarm

- 1. Choose the correct receiver among available destinations
- 2. Add it by clicking on the green "Right" arrow.



Select the Action codes and the alarm priority for which this rule should be affective for and save the routing rule.

Overview Alarms Configuration	
Back Edit alarm route rule[Act.code 3 to Oren]	♠ ?▼ → Admin: Sup ▼
Name: Act.code 3 to Oren	Save
Site Selection Schedule Receiver Routing Criteria	
Action Code	Alarm Priority: Critical, Severe, Normal
3	
□ 5	
6	
7	
9	
□ 11	
13	
15	



E-Mail

If all settings are made correctly an e-mail will be sent with the following alarm details.

Panel GW ---- **High t.alarm** EKC 204 2013-03-03 16:59:19.0

Log Id	1380
Priority	Normal
Alarm Reason	High t.alarm
Action Code	actionCode14
Unit Id	
Trip Value	
Alarm settings	
Active at	03/03/2013
Received at	03/03/2013
Cancelled at	
Duration	
Acknowledged at	
Acknowledged by	
Cleared at	
Cleared by	

Chains

Select Configuration -> Site -> Chain

Supporting multiple customers (Chains) is possible with the AK-EM 800. The following section describes how to configure store chains.

For adding a new Chain, click on the "Add" option.

This is where the Chains are managed. Once a Chain has been created they can be associated with sites and reports can be made based on the Chain information

A new chain can be added or existing ones can be modified by clicking the manage button.

Overview	Alarms	Configuration		
Chain				♠ ?▼ -© RM: Adm ▼
				Add Edit Delete Done
				Show: 50
🗌 Chain 🔭			· · · · · · · · · · · · · · · · · · ·	No. of sites
Chain 1 Chain 2				3
Chain 2				0
Chain 3				0
				-



Adding a Chain

First the contact details must be added

Overview	Alarms Configuratio	on		
Back Edit ch	ain[Chain 1]			♠ ?▼ -© RM: Adm ▼
Chain Informat	ion Sites Food Types			Save
Chain:	Chain 1	Logo:		
Address:	Nordborgvej 81 6430 Nordborg	Danfoss Upload logo		
			-	
Zip code:	Country must be			
City:	Nordb characters.			
State:				
Country:	Denmark			
Phone:				
Email:				
Fax:				
Corporate website:				
Contact person 1:	John Johnson	Phone:	Email:	
Contact person 2:		Phone:	Email:	
Contact person 3:		Phone:	Email:	

Then the sites must be associated for the chain if they are available and not associated. The association can also be done later when a site is created.

1. Select which sites to add to this chain

2. Add them by clicking on the green "Right" arrow.

Overview Alarms Configuration	on	
Back Edit chain[Chain 1]		🛖 ? 🛛 🖛 RM: Adm 🛛 🔻
Chain Information Sites Food Types		Save
Filter: Apply	Filter: Apply	1
Available sites	Associated sites	
Site Name	☐ Site Name	
Danfoss wall L21	No items to show.	
Danfoss Offenbach		
Office Danfoss		
	•	
	•	



Once the site have been added, the Food types used at this site must be created if HACCP and TQ reports are required.

The Food types are later used when configuring HACCP parameters.

- 1. For adding a new food type, click on the "Add" option.
- 2. Add the necessary details for the entry and save it by pressing "Done". Recommendation: Add the limit also to the Food type name. That makes the limits visible on all settings. (special characters like a / are not allowed for the food type name)

Overview Alarms Configuration			
Back Edit chain[Danfoss]			♠ ?▼ → Admin: Sup ▼
Chain Information Sites Food Types			Save
Note : Food type(s) having asset(s) associated will not be deleted.			Add Edit Copy Delete
			1
Food type	Lower limit	Upper limit	
HT (4 to 8)		4°C	8°C
LT (-23 to -21)		-23°C	-21°C
MT (1 to 3)		1°C	3°C
		Add food type	
		Add tood type	
		.val shall be entered as 0.val. Valid range: -999 to 999	
		Food type name: LT (-23 to -21)	
		Lower limit: -23 °C	
		Upper limit: -21 °C	

Save Can

3. When all food types have been added the entries must be saved by pressing "Done".

4. Save the Chain entry by clicking the Save button.

Note: It's not possible to delete a food type, as long it's associated with an asset.

Overview	Alarms	Configuration			
Back Add chair	1				♠ ?▼ -© Admin: Sup ▼
Chain information	Sites	Food types			Save
PKS Super Store	•				Add Edit Delete Copy Done
Food type			Lower limit		Upper limit
Frozen Chicken				-20	-16
Dairy				2	6
Milk				2	6
Fresh Chicken				2	6
					Show: 50



Site

Select Configuration -> Site -> Site

This is where the existing sites are listed, and new ones can be added by clicking the manage button.

For adding a new Site, click on the "Add" option.

Overview Alarms Configuration							
Site						♠ ?▼	Admin: Sup 🔻
Filter Select field: None *	Apply	Clear					
					Add	Edit Dek	
Name *	Site number	Chain	System	SW version	IP address	Port	Show: 50

It's also possible to edit, delete or refresh an existing site. Select only one site to edit.

Select one or more sites to delete or refresh sites. A refresh can be needed, if multiple changes are done on site. E.g. a slave is added to a master unit.

Adding a site

Enter the name and the other details for the new Site entry

Contact Con	munication Contractors	Information Asso	ciate Food Types Re	port Configuration	Graphs
ite ID:	3			Add	Edit Delete
ite name:	Demo wall L3 Denmark			Aud	
ite number:	2	Timestamp	Comment		User
hain:	Danfoss	3/20/2014 1:31 PM	test information		admin
me zone:	(UTC+01:00) Amsterdam, Be				
ip code: ity:					
ate:					
ountry:					
none:					
mail:					
ix:					
		Phone:		Email:	
ontact person 1:		Phone:		Email:	
ontact person 2:		Phone:		Email:	
ontact person 1: ontact person 2: ontact person 3: ontact person 4:		Phone:		Email:	

Enter the name and the other details for the new Site entry. Comments and PDF's can be added to a site. Max. 5 PDF's with max. 10MByte per PDF are possible. Comments are not limited.

Choosing a chain, timezone and site name are mandatory.



Adding an AK-SM 800 series or an AK-SC 355 site

- 1. Select AK-SM 8xx, AK-SC 255 or AK-SC 355 as System Type
- 2. Insert IP address and Alarm Port for the unit, and verify that there is a successful connection by pressing the test button (add user name and password for this test)
- 3. Define how often the site connection should be scanned. This is to "ping" the front end or the AKM agent. If there is no response a system alarm will appear in the alarm list. This action is dependent on the contract between monitoring center and end-user. A typical value is once per day.
- 4. The cap period is the time frame where the AK-EM 800 expects to get an alarm from front.

Example:

AK-SM 850 sends test alarms every 3 hours and the cap period is 4 hours. The cap time will be reseted every time a test alarm is received. Otherwise a system alarm will appear in the current alarm list.

- 5. Select how often history log data should be collected from the site.
- 6. Type in user name and password of the unit. This is needed for write actions to the unit.

Adding a new AKM Site

- 1. Select AKM as System Type
- 2. Type the connection details for the AKM Agent, and verify that there is a successful connection to the AKM database.
- 3. Define how often the connection to the AKM agent should be scanned. Recommendation: This Scan interval makes only sense for one site. If the agent is handling several sites it's enough to scan the agent only once.
- 4. The cap period is the time frame where the AK-EM 800 expects to get an alarm from an AKM site.

Example:

- To create frequently test alarms for AKM a SM720 can be programmed to send I'm alive alarms.
- 5. Choose what type of data is collected from this site. If only log an extra entry for alarm will be available.
- 6. Select how often history log data should be collected from AKM site. Recommendation for AKM. As AKM is collecting data only once per day, it makes no sense to use for AKM a shorter interval in AK-EM 800
- Once there is a successful connection, retrieve all the networks in AKM to choose the one for this site.

Overview

Alarms

Back Edit site[ALEPA Kilo (s

Overview	Alarms	Config	uration	
Back Edit site	[Demowall [)enmark]		
Contact Com	munication	Contractors	Information	Conflict
Site ID:	3	Contractors		
System type:	AK-SM8X	X V		
IP address:	188.180.	111.35:80		Test
Alarm port:	3001			
Scan interval:	01:00	hh:mm		
I am alive cap period:	0 🔻	hour		
Log setup Log collection interva Log collection start tii	<u> </u>	▼ hour 0		
System manager l	ogon details			
User name:	Superviso	or		
Password:	••••			

ita	AKM 1		AKM 2	
	IP address:	192.168.2.8:8080 Test	IP address:	I Test
r	Alarm port:	3001	Alarm port:	
	Scan interval:	12:00 + hh:mm	Scan interval:	00 : 00 🖨 hh:mm
rks	Supported data:	Logs	Supported data:	Alarms
C	onfiguration			
topped)]			

Contact	Communicati	on Contractors	Information	Conflicts	Associate Food Types	Report Configuration	Graphs
Site ID:	29						
System type:	АКМ						
АКМ 1							
IP address:	192.1	68.2.8:8080		Test			
Alarm port:	3001		-				
Scan interval:	00:00	0 🗧 hh:mm					
I am alive cap	period: 0	hour					
Supported dat	a: Logs,	alarms 🔻					
Log setup							
Log collection	interval: 0	hour					
Log collection s	start time: 00):00 🗘 hh:mm					
List of selected	AKM front ends	for the site	Get	t networks			
Front end na	ame	Address on AKM					

Danfoss

8. When the networks have been scanned, they will be on the left side. And must be selected. Once the selection is done, the selection must be saved. Remember to add both master and slaves.

va	ilable front ends				Sele	ected front ends	
\square	Front end name	Address on AKM	•			Front end name	Address on AKM
	Site 1	000:000:023:12				Site 82	10:1:
	Site 2	000:000:027:12					
	Site 3	000:000:043:12					
	Site 4	000:000:134:12					
		000:000:139:12					
		000:000:167:12					
		000:000:174:12					
		000:000:191:12		•			
		20:1:					
Γ		21:1:					
		0:254:25					
Γ		11:1:					
		11:1:					
Ľ.		11:1: -	-				
		<u>></u>					

The contractor details can be added and the entry can be saved.

When saved, AK-EM 800 will retrieve asset and log details for the site.

Contact	Communication Contractors	5			
efrigeration	contractors				
Contractor:	Coolio	Working hours:	Day/night		
Contractor:	Select contractor	 Working hours: 	Night		
)ther contra	ctors				
Contractor:	Electrify	Working hours:	Day		
Contractor:		Working hours:	Night		
	ve	×	Receiving configuration	data for Panel GW	Ø
Sit	e: Panel GW added successfully.W	Vould you like to	Data type	Status	8
Sit		Vould you like to	Data type Asset information	Status Complete	×
Sit	e: Panel GW added successfully.W	Vould you like to	Data type	Status	8



Once a site has been added and asset details and log definitions has been retrieved some extra functions will be available

Information page – Gives details about the assets and logs configured on the site

Conflicts
– Gives information about any conflicts with this site

A conflict is detected, if there is any difference between the AK-SM 800 database and the unit on site is detected. E.g. new or deleted history logs,...

Associate food types – Gives the possibility to add assets to defined food types

Report configuration Possibility to create the conditions for

- HACCP reports - TQ reports

Graphs

- Easy way to view graphs for the selected site

Overview	Alarms	Configuration			
Back Edit site	e[Demo wall L3 D	enmark]			
Contact Con	ımunication Co	ntractors Information	Associate Food Types	Report Configuration	Graphs



Site Information

On the Site information page it is possible to see the details that has been uploaded to the AK-EM 800 system, and the status e.g. a new log has been added to the system.

k Edit site[Demo wall L3 Denmark]						A ?*	Admin:
ontact Communication Contractors	Information Associate Food Types Report Conf	iguration Graphs					
Assets							
Select all		A	tion: Select action	▼ Date:	00 : 00 🚺 hh:mm Colle	ct rate: No collect	V Save
			Concertation			(III) CONTRA	
st for LM350							
2nd for LM350							
Brd for LM350							
: AK CC 550							
4 : AK CT550A							
4 : AK CT550A Parameter		Start time	Collect rate	Sample rate	Tag type	Service log	Status
		Start time 10/6/2014 12:00 AM	Collect rate	Sample rate	Tag type CTRL. STATE	Service log	Status
Parameter							Status
Parameter AK CT550A: Ctrl State AK CT550A: u17 Ther Air		10/6/2014 12:00 AM	01 Min	01 Min	CTRL. STATE	No	Status
Parameter AK CT550A: Ctrl State AK CT550A: u17 Ther Air AK CT550A: u26 Evap Temp Te AK CT550A: u20 S2 Temp		10/6/2014 12:00 AM 10/6/2014 12:00 AM	01 Min 01 Min	01 Min 01 Min	CTRL. STATE	No No	Status
Parameter AK CT550A: Ctrl State AK CT550A: u17 Ther Air AK CT550A: u26 Evap Temp Te AK CT550A: u20 S2 Temp		10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM	01 Min 01 Min 01 Min	01 Min 01 Min 01 Min	CTRL. STATE	No No No	Status
Parameter AK CT550A: Ctrl State AK CT550A: u17 Ther Air AK CT550A: u26 Evap Temp Te AK CT550A: u20 S2 Temp AK CT550A: u12 S3 Air Temp		10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM	01 Min 01 Min 01 Min 01 Min	01 Min 01 Min 01 Min 01 Min	CTRL. STATE	No No No No	Status
Parameter AK CT550A: Ctrl State AK CT550A: u17 Ther Air AK CT550A: u26 Evap Temp Te		10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM	01 Min 01 Min 01 Min 01 Min 01 Min	01 Min 01 Min 01 Min 01 Min 01 Min	CTRL. STATE	No No No No No	Status
Parameter AK CT550A: Ctrl State AK CT550A: u17 Ther Air AK CT550A: u26 Evap Temp Te AK CT550A: u20 S2 Temp AK CT550A: u12 S3 Air Temp AK CT550A: u16 S4 Air Temp		10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM	01 Min 01 Min 01 Min 01 Min 01 Min 01 Min	01 Min 01 Min 01 Min 01 Min 01 Min 01 Min	CTRL. STATE	No No No No No No	Status
Parameter AK CT550A: Ctrl State AK CT550A: 117 There Air AK CT550A: 2026 Evap Temp Te AK CT550A: 2020 S2 Temp AK CT550A: 112 S3 Air Temp AK CT550A: 109 S5 Temp AK CT550A: 109 S5 Temp		10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM	01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min	01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min	CTRL. STATE	No No No No No No No	Status
Parameter AK CT550A: Ctrl State AK CT550A: U17 Ther Air AK CT550A: U26 Evap Temp Te AK CT550A: U20 S2 Temp AK CT550A: U20 S2 Temp AK CT550A: U10 S4 Air Temp AK CT550A: U10 S4 Air Temp AK CT550A: U09 S5 Temp AK CT550A: U25 S5 Temp B		10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM	01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min	01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min	CTRL. STATE	No No No No No No No	Status
Parameter AK CT550A: Ctrl State AK CT550A: u17 Ther Air AK CT550A: u26 Exap Temp Te AK CT550A: u20 S2 Temp AK CT550A: u12 S3 Air Temp AK CT550A: u12 S3 Air Temp AK CT550A: u26 S2 Temp AK CT550A: u26 S5 Temp AK CT550A: u36 S5 Temp AK CT550A: u36 S6 Temp		10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM 10/6/2014 12:00 AM	01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min	01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min 01 Min	CTRL. STATE	No No No No No No No No	Status

The user is able to enable only logs he likes to retrieve from a site. By default, nothing is selected, but all logs are collected.

In addition the user can change the collect rate (e.g. from site a 1 minute log is selected, but if a 10 minute log is good enough, the user can change the rate from here.)

1. Select the logs for the new sample rate (or select all)

2. Choose "Collect rate" in the "Action" drop down box.

3. Set the new sample rate in the "Collect rate" drop down box

4. Press the "Save & Apply" button

It is also possible to recollect data in case of data gaps.

1. Select the logs to recollect (or select all)

2. Choose "Start time" in the "Action" drop down box.

3. Set data and time

4. Press the "Save & Apply" button

If the user like to do both in one go, he should choose "Both" in the "Action" drop down box.



Account

Conflict

The Conflicts page is only presented if there is a conflict between the known details and the newly updated details, e.g. if log definition has been changed or a new asset is added etc.

Select the assets or parameters and press the Accept button to accept the changes

If a log has been deleted in the front end, the previously collected data for these assets will not be deleted.

Likewise if new parameters have been added in a log, they will also be collected, even though the user doesn't accept the changes first.

Overview	Alarms	Configurat	ntion			
Back Edit si	ite[Panel GW]					▲ ?▼ -© Admin: Sup ▼
Contact Co	ommunication	Contractors Inf	nformation Conflic	S Associate food types	HACCP configuration	Save
Trouble shooting hi	ints					

Resolve the conflict(s) in front end or accept the changes here.

Asset	Log	Info	Status	Details
0:0:0 - EKC 204	EKC 204 007 : r12 Main switch	New	Add conflict	Log added
0:0:0 - EKC 204	EKC 204 007 : Def. Start	New	Add conflict	Log added
0:0:0 - EKC 204	EKC 204 007 : EKC State	New	Add conflict	Log added
0:0:0 - EKC 204	EKC 204 007 : u17 Ther. air	New	Add conflict	Log added
0:0:0 - EKC 204	EKC 204 007 : u12 S3 air temp.	New	Add conflict	Log added
0:0:0 - EKC 204	EKC 204 007 : u16 S4 air temp.	New	Add conflict	Log added
0:0:0 - EKC 204	EKC 204 007 : u09 S5 temp.	New	Add conflict	Log added
0:0:0 - EKC 204	EKC 204 007 : u10 DI1 status	New	Add conflict	Log added

Food type Associations

If a site has been assigned to a chain and Food type data is available it is possible to make HACCP reports for that site.

- 1. Select the food type
- 2. Choose the controller that must be assigned to the chosen food type
- 3. Assign by clicking on the green "Right" arrow.

verview	Alarms	Configuration			
	it site[Denio wan L5 Den	markj			
ontact	Communication Contr	actors Informa	ation Assoc	iate Food Types	Report Configuration Graphs
d type:	Select food type	Note: Please ca	e configuration	on this tab before s	navigating to other tabs.
rtype.	Select food type	Note: Fiedde day	a configuration	on this tab before i	lavigating to other taba.
cted food t	ype:				
:	Max :				
r: 0.0	ration, HVAC, Apply				
ilable ass			C -1	cted assets	
anable ass	ets		Sele	cteu assets	
Asset				Food type	Asset
0:4:A	K CT550A	1		Low temp	0:4:AK CT550A
] 0:4:L	4350			Low temp	0:4:AKCC550-2
0:4:A	KCC550-3			Low temp	0:4:AK CC 550
0:4:A	KCC550-2			Cheese	0 : Roomtemp
0:4:A	K CC 550			Low temp	0:4:AKCC550-3
0 : AK-S	M8XX				
0 : FAN 1	emperature				
	in wall				
0 : Temp	PP test	E			
0 : Temp 0 : For A			Statement of the local division of the local		
0 : For A					



Report Configuration (HACCP and TQ)

Once the food types have been correctly assigned, it is time to select the parameters that must be added to the report.

- 1. Choose the Tag type: Temperature, Defrost and Main Switch signal
- For HACCP or Temp quality sensor use e.g. "u12 S3 air", "u36 S6 Temp"
- For Defrost signal use:
- a. CTRL.STATE if the controller value delivers (parameter EKC State or Ctrl.State) 1,4,14 or 15 for defrost if not available use
- b. REG.CONDITION (parameter Reg.Cond)if value delivers 4 or 5 if not available use
- c. Defrost State e.g. "u60 Def. relay or Defrost state". Value should be 1

For main switch signal use:

CTRL.STATE if the controller value delivers (parameter EKC State or Ctrl.State) 10,4,14 or 15 for defrost

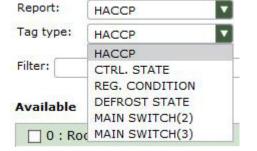
if not available use

MAINSWITCH(2) (parameter r12 Mainswitch) controller delivers value 0 (0=off,1=On) if not available use

MAINSWITCH(3) (parameter r12 Mainswitch) controller delivers

value -1 or 0 (0=off,1=On,-1=manual)

2. Select the parameter Note: These parameter must be logged



Report:	TEMP QUALITY	•
Tag type:	CTRL. STATE	
	CTRL. STATE	
Filter:	REG. CONDITION	
	DEFROST STATE	
Available	MAIN SWITCH(2)	
A dilable	MAIN SWITCH(3)	
0:LM	TEMP QUALITY	

3. Add them to the "Selected" list and save

Example: HACCP configuration

Back Edit site Rainer h	omooffical						
Back Edit Site[Rainer n	omeofficej						
Contact Communicatio	on Contractors	Information	A5 50	ciate Food Types	Report Configuration	Graphs	
Report: HACCP	Note: Please	e save configurat	ion on t	this tab before navigatir	ng to other tabs.		
ag type: HACCP							
ilter:	All	▼ Ap	ply				
vailable			Sele	ected			
0 : 7 : AK-CC550 Lab 88				Asset	Log parameter	Tag Name	Eng. u
0 : 7 : AK-CC550 Lab 87		•		0 1 0 1711 00000 Edi	u1/ Ther Air	111001	acyo
0 : 7 : AK-CC550 Lab 86		•		0 : 6 : AK-CC550 La	AK-CC550 Lab 61	HACCP	degc
0:7:AK-CC550 Lab 85		► E		0 : 6 : AK-CC550 La	AK-CC550 Lab 62	2: HACCP	deac
0:7:AK-CC550 Lab 84				U. U. AK-CC550 La	u17 Ther Air	1.1.1.1.1.1	degc
0 : 7 : AK-CC550 Lab 83		►		0 : 6 : AK-CC550 Lal	AK-CC550 Lab 63	B: HACCP	degc
0:7:AK-CC550 Lab 82			_	0 : 6 : AK-CC550 Lal	AK-CC550 Lab 6/	HACCP	
0:7:AK-CC550 Lab 81		•		0:6:AK-CC550 Lai	u17 Ther Air	HACCP	degc
0 : 7 : AK-CC550 Lab 80				0 : 6 : AK-CC550 La	AK-CC550 Lab 65	HACCP	degc
0:6:AK-CC550 Lab 53			-		AK-CC550 Lab 66		
0:6:AK-CC550 Lab 51				0 : 6 : AK-CC550 Lal	u17 Ther Air	HACCP	degc
0:6:AK-CC550 Lab 51		•		0 : 6 : AK-CC550 La	b 67 AK-CC550 Lab 67	HACCP	degc
0 : 6 : AK-CC550 Lab 49		•			AK CC550 Lob 69	3:	
0:6:AK-CC550 Lab 48		•		0 : 6 : AK-CC550 Lal	u17 Ther Air	HACCP	degc



Example: TQ configuration

Back Edit site[Rainer homeoffi	cej					
Contact Communication Co	ntractors Information	Asso	ociate Food Types Repo	rt Configuration G	aphs	
Report: TEMP QUALITY	Note: Please save configu	ration on	this tab before navigating to o	ther tabs.		
Tag type: CTRL. STATE						
Filter:	All	Apply				
Available		Sele	ected			
0 : 7 : AK-CC550 Lab 88	▶ 🔺		Asset	Log parameter	Tag Name	Eng. u
0 : 7 : AK-CC550 Lab 87	•			AK-CC550 Lab 56:		
0 : 7 : AK-CC550 Lab 86	•		0 : 6 : AK-CC550 Lab 56	u17 Ther Air	TEMP QUALITY	degc
0:7:AK-CC550 Lab 85	► E		0 : 6 : AK-CC550 Lab 57	AK-CC550 Lab 57:	TEMP OUALITY	deac
0 : 7 : AK-CC550 Lab 84	•		0.0.AK-CC350 Lab 57	u17 Ther Air	TEMP QUALITY	dege
0 : 7 : AK-CC550 Lab 83	►		0 : 6 : AK-CC550 Lab 58	AK-CC550 Lab 58: u17 Ther Air	TEMP QUALITY	degc
0:7:AK-CC550 Lab 82	•	_		AK-CC550 Lab 59:		-
0 : 7 : AK-CC550 Lab 81	•		0 : 6 : AK-CC550 Lab 59	u17 Ther Air	TEMP QUALITY	degc
0 : 7 : AK-CC550 Lab 80	•		0 : 6 : AK-CC550 Lab 60	AK-CC550 Lab 60:	TEMP QUALITY	degc
0 : 6 : AK-CC550 Lab 53	•	_		u17 Ther Air AK-CC550 Lab 61:	-	-
0 : 6 : AK-CC550 Lab 52	•		0 : 6 : AK-CC550 Lab 61	u17 Ther Air	TEMP QUALITY	degc
0 : 6 : AK-CC550 Lab 51			0 : 6 : AK-CC550 Lab 62	AK-CC550 Lab 62:	TEMP OUALITY	deac
0 : 6 : AK-CC550 Lab 50			0.0.AK 00000 Eab 02	u17 Ther Air	COALITI	acge
0 : 6 : AK-CC550 Lab 49			0 : 6 : AK-CC550 Lab 63	AK-CC550 Lab 63: u17 Ther Air	TEMP QUALITY	degc
0 : 6 : AK-CC550 Lab 48	•			4K-CC550 Lab 64:		

Graphs - see custom graphing



Users

Select Configuration -> Users -> Users

The users function is divided into 3 pages

All users

- List of existing users with managing functions

User group

- List of defined user groups with managing functions

My Settings

- Settings for the user that is logged in

Overview Alarms Configuration			
Jsers			♠ ?▼ -© Admin: Sup ▼
All User Group My Settings			
Filter Select field: None	Clear		
			Add Edit Copy Delete
			Show: 50 V
Name *	User Group	Status	
Administrator	Administrators	Offline	

For adding a user, click on the "Add" option.

All Users page

There are by default 4 users created

Super Administrator – This user has all rights at any time, and can not be deleted (admin/danfoss)

Administrator – This user has all rights by default but can be altered

(administrator/danfoss)

User

– This user has all rights except write access to the "Configuration" menu (**user/danfoss**)

Guest

– This user can view everything but not change anything (guest/ danfoss)



Adding a user

Some of the fields are mandatory and marked with a red $"!" \label{eq:some_source}$

Log on name can't be changed later and User Group association can't be changed by the user himself. To disable the auto log off function, set the "Log off intervall" to zero.

If the user has forgotten his password, the Superadmin will be able to reset the user to the default password "danfoss"

Following languages are supported

- English
- German
- Portuguese
- Portuguese (Brazil)
- Russian
- Spanish (Mexico)
- Spanish
- Dutch
- French
- Italian
- Chinese

Overview	Alarms Conf	iguration				
Back Add use	r					
User Information	Sites					
User		Contact		Preferred settings		
Name:	John Johnson	Company:	Danfoss A/S	Language:	English	
Initials:	11	Address:		Time zone:	Site local	
Log on name:	John			Temperature units:	Celsius	
User Group:	Administrators			Pressure units:	bar	
Password:	•••••			Light units:	lux	
Retype password:	•••••	Email:	n.johnson@em800.com	Start page:	My settings	
		Work phone:		Log off interval:	60	
		Mobile phone:		Date format:	M/d/yyyy	
		Home phone:		Time format:	h:mm tt	
				Number format:	d1.d2	
				Graph period:	Daily	
				Enable alarm notif	cation display	
				Disable Tooltips		
				Active alarm:		
				Acknowledge alarm:		
				Cleared alarm: Alarm refresh interval		

Site association to a user

- 1. Select which site to associate to selected user
- 2. Assign them by clicking on the "Right" arrow.
- 3. When all the settings have been made the new user can be created by pressing the Save button in the top right corn**er**

Overview Alarms	Configuration				
Back Edit user[Manual]				<u> </u>	🖜 Manu: Adm
User Information Sites					Save
Available sites	Expand al	Associated sites	Expand al		
Chain 1	•	Chain 1	•		
Office Danfoss		Danfoss wall L21			
		Danfoss Offenbach			
	•				
	•				
		l l			



User Groups page

This is where user groups can be added or existing User groups can be changed.

There are 4 User groups by default with different restrictions.

Super admin, Administrators, Users and Guests.

1. For adding a User group, click on "Manage" and select the "Add" option.

Overview	Alarms	Configuration					
User group All users Us	er group My setti	ngs			A	?▼ -© Admin:	Sup ♥
Filter Select field	d: None	*	Apply Clear	Add	Edit Cop	by Delete	Done
User group ^				No	of users		
Administrators							1
Guests							1
Users							1
						Show:	50 7

Adding a new user group

When creating a new "User group" the admin must decide what pages the new User group must have read and write access to.

There are three tabs, where each of them represents a menu group. In every menu group the admin can choose the read or write access for each page.

- 1. The name for the new menu group must be entered here
- 2. If required the new group can be based on of the already existing user groups.

3. Assign rights

Overview	Alarms Configuration			
Back Add user gro	pup			🔺 ?v -© Admin: Sup
Iser group: Iser group template: Overview Alarms	New Group Select template			Save
General				
Page		Read	Write	
Site List				
Audit Trail				
Graphs & Reports				
	Read access will let user view informati		Write access will let the user change information	



Contractors

Select Configuration -> Users -> Contractors

A contractor is the person that has the technical knowledge regarding the installation, and will be the one to contact if something has to be changed on the installation.

For adding a Contractor, click on "Manage" and select the "Add" option.

Overview Alarms Configuration			
Contractors			♠ ?▼ -© Manu: Adm ▼
Filter Select field: None			
✓ Contractor: Contractor all added successfully.		Ad	d Edit Delete Done
			Show: 50 🔽
Contractor name *	System type	Country	City
Contractor all	Refrigeration, HVAC, Lighting, Miscellaneous, Energy		
Contractor L	Lighting		
Contractor R	Refrigeration		

When the Contractor informations has been added, the entry must be saved.

When creating a site entry in the system, the contractors can be assigned for that site.

Back Add co	ntractor		🛖 ? 🛛 🗕 🖉 Admin: Sup
Contractor name: System type: Address:	Refrigeration	Logo: Image well come here Upload logo	Save
Zip code:			
City:			
State:			
Country:			
Phone:			
Email:			
Fax:			
Contact person 1:		Phone:	Email:
Contact person 2:		Phone:	Email:
Contact person 3:		Phone:	Email:

Choose which type of contractor it is

System type:

Refr	igeration	•
	Refrigeration	
	HVAC	
	Lighting	
	Energy	
	Miscellaneous	

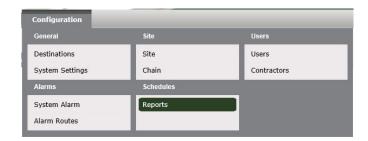


Scheduled Reports

Select Configuration -> Schedules -> Reports

A scheduled report is today a HACCP or TQ report you like to forward on a frequently basis to one or more Email addresses.

To add a reports click on "Add". As usual Manage opens also the menu to edit or delete an existing schedule.



Overview Alarms O	Configuration				
Schedule				#	?▼ -© Admin: Sup ▼
Filter Schedule name:	Apply Clear			Add Ed	iit Delete Done Show: 50 ¥
Schedule name	Туре	Created on	Created by	Last execution time	Owner
test report	HACCP REPORT	02/28/2014 21:22:16	admin	05/04/2014 21:00:28	Shared

To schedule a HACCP report, the store must been setup before with food types, association of food types and the HACCP configuration (see corresponding chapter).

Insert also the report type (today only HACCP and Temperature Quality are available), the format of the file name and the chain. Afterwards, you have to the select one or more sites (from available to selected sites) and the Email destinations. The destinations are defined before under menu configuration – destination.

Overview Alarms Configuration			Danfett
Back Edit schedule [Daily HACCP]			Admin: Sup ▼
Type: Food quality report T Fermatt: Steranen_yyydd84 T Chain: Danfoss T	Period: Daily Time: 21 2 From: 0 20/20/2014 0 To: 0 VN No end dete	Logo: <u>Hanfeld</u> Add loge	Save
Filter: Apply		☑ Store on network drive [C:\Temp]	
Available sites	Selected sites	Destinations	Add Delete
□- Site name	. Site name	□- Name	Email
Demo site 1 in Denmark Demo site 5 in Denmark	Demo site 2 in Denmark	Mr. Smith Mr. Miller	smith@demosite.com miller@demosite.com
	*		

The user can select, if the report should run for a period only (from to) or if the report should have no end date. Select also the time when the report will be send out.



There is also a possibility to store the HACCP PDF on a network Overview Alarms Configuration drive. The location can be defined in the system settings. (Configuration – System settings – Schedule settings) System Schedule settings Select drive : C:\ Folder name: Temp As usual, a logo for the report can be selected. Save schedule After finishing all details, the report must be saved. A message box will appear and allows the user to give the schedule a name and Name: test report also if the report will be shared with other users or not. Share schedule Afterwards the report is listed in the overview Ok Cancel Overview Alarms 🔺 | ?▼ |-© Admin: Sup Schedule Filter Schedule name: Apply Clear Add Edit lete Done Show: 50 Created by Schedule name
test report Type Created on Last execution time Owner 02/28/2014 21:22:16 05/04/2014 21:00:28 Shared

The user can see the name of the report, when it was created and also when it was last time executed.

The result should be a report with a PDF attachment. The PDF contains HACCP data (see example below)

HACCP report Chain : Demo Site : Site 1 Date : 10-03-2014	1141		an and a second se																							0	Dan
Setpoint deviation : -5.0	0 -4.0 -3	3.0 -2.0	0.0 2	.0 3.0	4.0	5.0		Defros	st		Swi	itch off	:		No	lata :											
Asset	High	Low	Interval	00.00	01.00	02.00	03.00	04.00	05.00	06.00	07.00	08.00	09.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
0 : 3 : 4-plansd 1K21A	3	1	600sec.	0.6	1.3	0.9	3.3	0.8	0.5	0.6	0.7	1	0.7	1.6	0.7	0.6	3	1	1.2	0.6	1	0.9	1.2	0.8	3.8	0.6	
) : 3 : 4-plansd 1K21B	3	1	600sec.	1	1.8	1.2	2.4	1.2	1.2	1.6	1.5	1.3	1.5	1.6	1.3	0.8	1.7	1.2	1.9	0.9	1.7	1.2	1.5	0.7	2	0.6	
0 : 3 : 4-plansd 1K21C	3	1	600sec.	1.2	1.3	1.2	1.7	1.1	1.1	0.9	1.4	1.2	0.9	1.3	1.6	1.1	1.9	0.8	1.4	1	1.3	1.5	1.4	1.2	2	1.5	
0 : 3 : 4-plansd 1K21D	8	5	600sec.	5.7	5.6	5.3	5.1	4.3	4.6	5.6	5.5	5.7	4.4	5.5	5.5	4.3	4.8	5.8	5.8	5	4.5	4.6	5.3	5.3	4.5	5	
0 : 3 : 4-plansd 1K21E	8	5	600sec.	4.5	5.4	5	4.6	5.4	4.7	5.3	5.2	5.6	5.1	5.8	5.6	4.7	5.1	4.4	5.7	5	4.4	5.2	4.9	5.5	5.2	5.5	
) : 3 : 4-plansd 1K22A	8	5	600sec.	5.6	5.5	6.1	5.9	5.3	5.2	4.8	5.5	5	5.8	4.8	5.6	5	4.9	4.9	5.9	5.6	5.1	5.4	5.4	6	5.4	5.5	
) : 3 : 4-plansd 1K22B	8	5	600sec.	5	4.6	5.6	4.1	5.3	5.7	5	5.1	4.9	5.3	4	4.8	5.7	4.4	5.7	6	5.3	5.5	4.9	5.6	4.6	3.9	4.8	
D : 3 : 4-plansd 1K22C	8	5	600sec.	4.7	6.1	5.3	4.6	5.1	4.8	5.7	6.2	5.4	5.5	5.1	5.4	4.9	5.3	6.1	5.9	5.2	5.1	4.6	4.5	4.7	5.4	5.3	
D : 3 : 6-plansd 1K23A	8	5	600sec.	6	6.2	5.6	5.9	5.9	5.4	5.7	6.7	6.9	6	5.6	6.6	6	6	5.9	5.8	6.3	5.8	5.5	6.3	5.5	6.3	5.5	
) : 3 : 6-plansd 1K23B	8	5	600sec.	5.8	5.6	5.6	6	5.9	5.8	5.7	6	5.8	6.1	6	5.8	6.2	5.8	5.8	6	5.8	5.9	6	5.6	5.7	6.1	5.6	
) : 3 : 6-plansd 1K34	8	5	600sec.	2.2	1.2	1	0.7	1.3	2	0.5	0.9	0.8	1.2	1	1.4	1.3	1.5	1.1	2.7	0.8	1.1	0.9	1.5	1.2	1.2	1	
1 · 3 · 6-nlaned 1K154	ء I		600sec	5.2	5.8	6	54	5.2	57	55	55	6.2	57	54	61	5.8	5.2	5.8	5	5.2	5.8	67	59	5.4	57	6	



Site history collection report

AK-EM 800 is able to send logs as CSV or TXT attachment by Mail.

- 1. Select type "Site history collection report"
- 2. Select the file format
- 3. Select the chain
- 4. Select the site(s) for the export

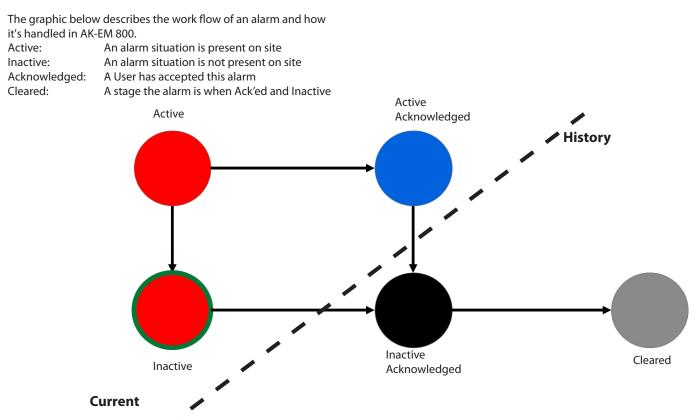
Overview Alarms Configuration			2	Danfott			
Back Add schedule	Ŕ		♠ ?▼ -© Admin: S	iup ▼			
Format: Storename_yyyyMMdd From: Chain: Danfoss TO:	Monthly Time: 0 • • 21/09/2016 • • • • • 21/10/2016 •	Logo: Add logo Report format: Ext: •	5	Save			
Filter: Apply Interval	C1 Min 🔻	Store on network drive [C:\Save_EM800_data\Repor]					
Site name S	ed sites From: Apply ite name Report start date	Destinations Destinations Name	Add D Email	Pelete			
	ernovall Denmark andres Of Serverum omeoffice SM850 omeoffice SC335	No items to	show.				
he user can choose, if he wants to have the	report	Period: Daily Time	: 2 🔽				
. Daily: Select Start date and send time		From: 21/09/2016	-				
Select Start date and Selid time		To:					
		No end date					
2. Weekly Select Start date, Day of the week and sen	d time	Period: Weekly ▼ Time: From: 21/09/2016 ▼ To: 28/09/2016 ■ ✓ No end date	2 🔻	Sunday			
B. Monthly Select start date, date of the month and se	end time		•	Sep 2	2016	•	•
			s	мти	Т	F	s
		Period: Monthly Time: 2	28	29 30 3	1 1	2	3
		From: 21/09/2016	4	5 6 7	8	9	10
		To: 21/10/2016	11	12 13 14			17
he use can also select the interval. E.g. If the neeved, but the user needs it different in the		☑ No end date	18	19 20 2			24
s able to change the interval here. If the logs ntervals, they will be aligned. Selectable inte	s are in different	Interval: 01 Min	25	26 27 28 Today		30 Cancel	1
and 60 minutes.		Interval: 01 Min					
The format can be chosen between TXT or C	SV.	02 Min 02 Min 30 Min 30 Min 1 Hr					

The rest is identical with all other reports.

Report format:	txt	v
	txt	
Store on netwo	CSV	



Alarms



Alarm Lists

Select Alarm -> Alarm Lists

The Alarm Lists function contains 2 pages by default, Current Alarms and Historical Alarms, where the alarms which are not acknowledged will be listed in the Current alarms list.

If the alarm has been acknowledged by a user it will be shown with a tick mark in the "Ack" column and the colour for that alarm will change according to the settings for the logged in user.

When cancelled and acknowledged it will be moved to Historical alarms.

An alarm can be acknowledged and cleared by selecting it and choosing one of the available options.

Reorganizing of columns is possible by drag&drop of the headlines

		Alarms	Configur	ation												
larm Lists														≜ 13	? - -0	Admin:
Current Al	arms 🌲	Historical Alar	ms													
															Sho	ow pane
													Filter Acknowle	dae Cle		Save set
													Pilter	uge cie.	_	
count: 1	1														Sł	now: 50
St Ack	Log Id	Site	U	Asset	Reason	Туре	Received at *	Active at site	Tri	Priority	c	Cancelled at	Cleared at	Ackno	Note	Con
×	125264															
				0:3:Manuell Fisk 1K	Max Def Time	R	08-11-2013 09:35:05	08-11-2013 09:33:04	OK	Normal	1	08-11-2013 09:3	08-11-2013 09:38:09			
	125264			0:3:Manuell Fisk 1K 0:3:1-plansd 1K9B	Max Def Time Max Def Time	R	08-11-2013 09:35:05 08-11-2013 09:34:54	08-11-2013 09:33:04 08-11-2013 09:32:47		Normal Normal			08-11-2013 09:38:09 08-11-2013 09:37:53			+++++++++++++++++++++++++++++++++++++++
×			C						ОК		1	08-11-2013 09:3				+ + +
×. ×.	125263		- C	0 : 3 : 1-plansd 1K9B	Max Def Time	R	08-11-2013 09:34:54	08-11-2013 09:32:47	ОК	Normal	1	08-11-2013 09:3 08-11-2013 08:0	08-11-2013 09:37:53			٠
×. ×. ×.	125263 125262			0 : 3 : 1-plansd 1K9B 0 : AK-SM850	Max Def Time Test Alarm	R R	08-11-2013 09:34:54 08-11-2013 08:18:25	08-11-2013 09:32:47 08-11-2013 08:00:00	OK OK OK	Normal Normal	1	08-11-2013 09:3 08-11-2013 08:0	08-11-2013 09:37:53 08-11-2013 08:00:35			+
×. ×. ×.	125263 125262 125261			0 : 3 : 1-plansd 1K9B 0 : AK-SM850 0 : AK-SM850	Max Def Time Test Alarm Test Alarm	R R R	08-11-2013 09:34:54 08-11-2013 08:18:25 08-11-2013 07:51:39	08-11-2013 09:32:47 08-11-2013 08:00:00 08-11-2013 07:32:02	OK OK OK OffLn	Normal Normal Normal	1	08-11-2013 09:3 08-11-2013 08:0	08-11-2013 09:37:53 08-11-2013 08:00:35			+ + +
×3. ×3. ×3.	125263 125262 125261 123997			0 : 3 : 1-plansd 1K9B 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850	Max Def Time Test Alarm Test Alarm I/O Comm error	R R R R	08-11-2013 09:34:54 08-11-2013 08:18:25 08-11-2013 07:51:39 06-11-2013 14:34:14	08-11-2013 09:32:47 08-11-2013 08:00:00 08-11-2013 07:32:02 06-11-2013 14:32:53	OK OK OffLn OffLn	Normal Normal Normal Normal	1	08-11-2013 09:3 08-11-2013 08:0	08-11-2013 09:37:53 08-11-2013 08:00:35			+ + + +
X6. X6. X6. A. A. A. A. A. A. A. A. A. A. A. A. A.	125263 125262 125261 123997 123996			0 : 3 : 1-plansd 1K9B 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850	Max Def Time Test Alarm Test Alarm I/O Comm error I/O Comm error	R R R R	08-11-2013 09:34:54 08-11-2013 08:18:25 08-11-2013 07:51:39 06-11-2013 14:34:14 06-11-2013 14:22:16	08-11-2013 09:32:47 08-11-2013 08:00:00 08-11-2013 07:32:02 06-11-2013 14:32:53 06-11-2013 14:20:44	OK OK OffLn OffLn OffLn	Normal Normal Normal Normal Normal	1	08-11-2013 09:3 08-11-2013 08:0	08-11-2013 09:37:53 08-11-2013 08:00:35			++++
X0. X0. X0. A A A A	125263 125262 125261 123997 123996 123995			0 : 3 : 1-plansd 1K9B 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850	Max Def Time Test Alarm Test Alarm I/O Comm error I/O Comm error I/O Comm error	R R R R R R	08-11-2013 09:34:54 08-11-2013 08:18:25 08-11-2013 07:51:39 06-11-2013 14:34:14 06-11-2013 14:22:16 06-11-2013 14:22:05	08-11-2013 09:32:47 08-11-2013 08:00:00 08-11-2013 07:32:02 06-11-2013 14:32:53 06-11-2013 14:20:44 06-11-2013 14:20:44	OK OK OffLn OffLn OffLn Trip	Normal Normal Normal Normal Normal Normal	1	08-11-2013 09:3 08-11-2013 08:0	08-11-2013 09:37:53 08-11-2013 08:00:35			* * * * *
×2 ×2 ×2 ×2 ×4	125263 125262 125261 123997 123996 123995 123990			0 : 3 : 1-plansd 1K9B 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850 0 : AK-SM850	Max Def Time Test Alarm Test Alarm I/O Comm error I/O Comm error I/O Comm error DNS failure	R R R R R R	08-11-2013 09:34:54 08-11-2013 08:18:25 08-11-2013 07:51:39 06-11-2013 14:34:14 06-11-2013 14:22:16 06-11-2013 14:22:05 06-11-2013 13:16:53	08-11-2013 09:32:47 08-11-2013 08:00:00 08-11-2013 07:32:02 06-11-2013 14:32:53 06-11-2013 14:32:54 06-11-2013 14:20:44 06-11-2013 13:15:44	OK OK OffLn OffLn OffLn OffLn Trip 25.9 °	Normal Normal Normal Normal Normal Normal	1	08-11-2013 09:3 08-11-2013 08:0	08-11-2013 09:37:53 08-11-2013 08:00:35			* * * * * *



State
Ack.
Log Id
Site
Unit Id
Asset
Reason
Type
Received at
Active at site
Trip value
Priority
Count
Limit Add and delete columns is possible as well. Select a column with the right mouse button and a selection list appears. Columns For both actions, add/delete colums or reanrange columns the or Alarr CFühlerwert Rec Low Level Fehler S5 Fehler user should press the save setting button. On next logon the changed list will appear again. k Warning k waming Standby Mode Standby Mode Standby Mode (Defrost Time Door Alarm Limit
 Action Action code tandby Mode Standby Mode By selecting the "Show Pane" option it is possible to see more Connect Cleared by details for one selected alarms Acknowledged by Routed at Cleared at 1. Tick mark the Show Pane option Cancelled at Active a 2. Select an alarm to see more details for that alarm Alarms Configuration Overview 🔺 | ? 🛪 | 🗝 Admin: Sup Alarm Lists Current Alarms 🌲 Historical Ala 🗸 Show pane 🦷

															Filter Acknowled	lge Cle	IF	Save sett
Narm (coun	t: 11															sł	10W: 50
E 51	t	Ack.	Log Id	Site	U	Asset	Reason	Туре	Received at *	Active at site	Tri	Priority	c	Cancelled at	Cleared at	Ackno	Note	Con
	×o.		125264		(0 : 3 : Manuell Fisk 1K	Max Def Time	R	08-11-2013 09:35:05	08-11-2013 09:33:04	OK	Normal	1	08-11-2013 09:3	08-11-2013 09:38:09			•
3	×6		125263			0 : 3 : 1-plansd 1K9B	Max Def Time	R	08-11-2013 09:34:54	08-11-2013 09:32:47	OK	Normal	1	08-11-2013 09:3	08-11-2013 09:37:53			*
73	Xa.		125262	Concentration of the local division of the l	(0 : AK-SM850	Test Alarm	R	08-11-2013 08:18:25	08-11-2013 08:00:00	OK	Normal	1	08-11-2013 08:0	08-11-2013 08:00:35			
. ;	×a.		125261			0 : AK-SM850	Test Alarm	R	08-11-2013 07:51:39	08-11-2013 07:32:02	OK	Normal	1	08-11-2013 07:3	08-11-2013 07:32:35			+
	4		123997		(0 : AK-SM850	I/O Comm error	R	06-11-2013 14:34:14	06-11-2013 14:32:53	OffLr	Normal	6					•
	4		123996			0 : AK-SM850	I/O Comm error	R	06-11-2013 14:22:16	06-11-2013 14:20:44	OffLr	Normal	5					+
			123995	fileere meyn mexer P		0 : AK-SM850	I/O Comm error	R	06-11-2013 14:22:05	06-11-2013 14:20:44	OffLr	Normal	4					•
4	-																	

Active at	08-11-2013 08:00:00
Cleared by	Danfoss Confice
Limit	Alarm if ON
Action code	actionCode1
Deviced	22-11-45922 01:22:12

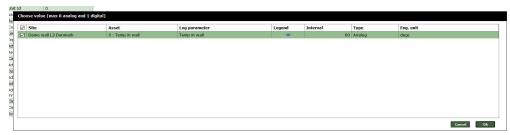
To see more details for an alarm, the user can double click an entry.

Then three new pages will be presented.

The Overview page has a few more details than the list e.g. when the alarm was cancelled and a calculation of the duration

Overview	Alarms
Back 💄 Alar	m details [Log Id 53115
Overview A	ctions Site Contacts
Details	
Log Id	53115
Priority	Critical
Туре	Miscellaneous
Site	Demo wall L3 Denmark
Unit Id	0
Asset	0 : Temp in wall
Reason	Max.Fühlerwert
Count	1
Limit	Alarm wenn > 35.0°C
Trip value	35.8 °C
Active at	10/29/2014 10:13 AM
Received at	11/3/2014 10:20 AM
Cancelled at	
Active at site	10/29/2014 10:13 AM
Duration	5d:1h:8m
Adknowledged at	
Action code	actionCode1
Acknowledged	
by	
Cleared at	
Cleared by	
Routed	Not sent

Press button "Legend" to get details about what history log is available for this particular alarm and select the log(s).

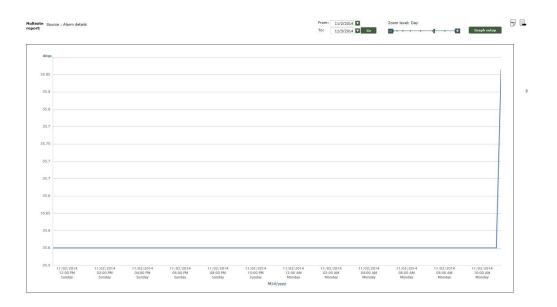




Press Ok to get the log(s) presented. The graph will show, what's available in the database. In parallem EM800 logs into the frontend and collects the newest data. This will take a few seconds, before updated data are presented.

Overview	Alarms Cor	nfiguration													
Back 📕 Alar	m details [Log Id 53115]												≜ '	?▼ © Admin	:Sup 🔻
Overview Ad	tions Site Contacts														
Details													Stan	dard graph	Legend
Log Id	53115														
Priority	Critical	dea													
Туре	Miscellaneous	uego													_
Site	Demo wall L3 Denmark														
Unit Id	0	35.9													Г
Asset	0 : Temp in wall	and because													
Reason	Max.Fühlerwert	35.8													
Count	1	10000													
Limit	Alarm wenn > 35.0°C	35.7													
Trip value	35.8 °C	10000407													
Active at	10/29/2014 10:13 AM	35.6													
Received at	11/3/2014 10:20 AM	*******													
Cancelled at		35.5	2014-11-02	2014-11-02	2014-11-02	2014-11-02	2014-11-02	2014-11-02	2014-11-03	2014-11-03	2014-11-03	2014-11-03	2014-11-03	2014-11-03	-
Active at site	10/29/2014 10:13 AM		12:00:00	14:00:00	16:00:00	18:00:00	20:00:00	22:00:00	00:00:00	02:00:00	04:00:00	06:00:00	08:00:00	10:00:00	
Duration	5d:1h:6m		Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Monday	Monday	Monday	Monday	Monday	Monday	
Acknowledged at								1000	/-mm-dd						
Action code	actionCode1														
Acknowledged															
by															
Cleared at															
Cleared by															
Routed	Not sent														

If the resolution of the graph is not good enough, or the user needs to see data from previous time he should press the button "Standard graph". The user is now able to change the timeframe or export the graph to PDF/XML.





admin : Administrator

In the Actions page it is possible to see already written comments and add new comments

03/04/2013 09:30:27 Called Store

- 1. To add a new comment press the Add action button
- 2. Select action
- 3. Add comment
- 4. Save entry by pressing OK



The store owner has been informed

Add alarm ha	ndling action
Add action:	Called Store
Comment:	
	Ok Cancel

On the Site contacts page it is possible to see all entered details about the Site and Contractors, so the monitoring company can take quick action.

Overview	Alarms	Configuration	
	rm details [Log Id ctions Site Cont		
Site contact inf	D	Contractor cont	act info
Name	Office Danfoss	Working hours	Day/night
Address		Name	Contractor all
City		Туре	Refrigeration
Zip code Contact person		Address	Mad Clause Vej 12
1		Zip code	
Phone 1 Email 1		Contact person 1	John Johnson
Contact person		Phone 1	+1 123456789
2 Phone 2		Email 1	john@johnson.co m
Email 2		Contact person	
Contact person 3		Phone 2	
Phone 3		Email 2	
Email 3		Contact person 3	
		Phone 3	
		Email 3	



Filtered Alarm Lists

It is also possible to make filtered alarm lists

To make a filtered list, press the filter option

Filt Max Multiple Ack. log 1d Site Um Asset Respective R	now pane
Stu Ack log Id Site U Asset Reason Type Received at * Active at site Tri Priority C Cancelled at Cleared at Ackno Note 125265 0 0 13 Hanuell Fisk IK Max Def Time R 06-11-2013 09:33:06 00-11-2013 09:33:04 OK Normal 1 06-11-2013 09:33:06 01-12-013 09:33:04 OK Normal 1 06-11-2013 09:30:09 06-11-2013 09:33:04 OK Normal 1 06-11-2013 09:30:09 06-11-2013 09:30:09 06-11-2013 09:30:00 0 0 01-12-013 09:30:09 00-11-2013 09:30:00<	
St. Ack. Log Id Site U Asset Reason Type Received at * Active at site Tri Priority C Cancelled at Cleared at Ackno Note Xo 125265 0 0 3 Manuell Fisk IX	Save setti
Matrix 00 - 13 1 - 10 - 14 - 10 - 10 - 13 1 - 10 - 14 - 10 - 10 - 10 - 10 - 10 -	600: 50
No. 122262 Location of the AK-SM850 Text Alarm R 08-11-2013 08:00:00 OK Normal 1 08-11-2013 08:00:00 State Alarm R 08-11-2013 08:00:00 OK Normal 1 08-11-2013 08:00:00 State Alarm R 08-11-2013 08:00:00 OK Normal 1 08-11-2013 08:00:00 State Alarm R 08-11-2013 08:00:00 OK Normal 1 08-11-2013 08:00:00 NK Normal 1 08-11-2013 08:00:00 NK Normal 1 08-11-2013 08:00:00 NK Normal 0 08-11-2013 08:00:00 NK Normal 1 08-11-2013 08:00:00 Normal 0 0 NK NS 0 0 0 NK	•
Xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	•
123997 0 <td>•</td>	•
123996 0 <td>•</td>	•
Interact OB-11-2013 08:00:00 VO Commerror R O6-11-2013 14:22:05 O6-11-2013 14:20:44 Offin Normal 4	•
tive at 06-11-2013 06:00:00 eared by Darfost	•
tive at 08-11-2013 08:00:00 sared by Danfost	•
eared by Danfossered Danfoss	
imit Alarm if ON	
ktdno code 1 action Code1 actio	

It is possible to open an existing filter settings, or create a new filter.

When choosing the different filter settings they can be edited or left as they are.

	Filter		×
If a filter already has been made and saved, it can be	Filter on Current	alarms	
chosen in the list.	Select favourite:		
	Filter name:	Current Alarm Filter1	
To filter on a specific chain level	Chain:	All chain	
Which type of alarms you want to see	Type:	Refrigeration, HVAC, Lightin	g, Sy 🔻
	Received at:):00 💠 hh:mm
		То: 🔽 ОС):00 🚔 hh:mm
It is also possible to filter on a specific	Column 1:	None *	
column e.g. Site name.	Column 2:	None 🔽 *	
		Apply	lear Save as favourite Close
		To enable the filter	
		view press Apply	filter can be saved and opened later.



A quicker way to make a filter is also possible. If an alarm is already selected and then the "Filter" button is pressed, there will be some pre-selected values in the filter already.

C	vervi	ew	ļ	Alarms	Configuration												
_	rm Li urrei	sts 1t Ala	rms -	Historical Al	arms										▼ - 0	Admin: S	up v
															🗌 Sha	ow pane	re 🗖
													Filter Acknowled	lge Clez	r (Save setti	ng
Alarm	I.	1		Filter		×	L	l	I	I	I_			l		now: 50	v
	it /	Ack.		Filter on Current	alarms	Тур	e Received at *	Active at site 08-11-2013 14:48:31		Priority	C	Cancelled at	Cleared at	Ackno	Note	Con	*
			12	Select favourite:		R	08-11-2013 14:49:28	08-11-2013 14:48:31		Normal	1						
	×		12			R	08-11-2013 14:49:04	08-11-2013 14:47:35		Normal	7	08-11-2013 14:4	08-11-2013 14:48:16				
	×		12	Filter name:	Current Alarm Filter1	R	08-11-2013 14:48:54	08-11-2013 14:47:35	OnLn	Normal	6	08-11-2013 14:4	08-11-2013 14:48:16			+	
	X		12	Chain:	All chain	R	08-11-2013 14:48:43	08-11-2013 14:47:35	Start	Normal	5	08-11-2013 14:4	08-11-2013 14:48:16			+	
	×		12	Type:	Refrigeration	R	08-11-2013 14:48:33	08-11-2013 14:47:35	OnLn	Normal	4	08-11-2013 14:4	08-11-2013 14:48:16			+	
	X		12		From: 08-11-2015 14:49 hh:mm	R	08-11-2013 14:48:23	08-11-2013 14:40:12	Start	Normal	3	08-11-2013 14:4	08-11-2013 14:44:22			•	
	×		12			R	08-11-2013 14:48:12	08-11-2013 14:40:12		Normal	-		08-11-2013 14:44:22			•	
	X		12		To: 08-11-201: 23:59 🖶 hh:mm	R	08-11-2013 14:48:02	08-11-2013 14:40:12		Normal	-		08-11-2013 14:44:22			+	
	×		12	Column1:	Site Testsite Danfoss	R	08-11-2013 14:47:52	08-11-2013 14:37:41		Normal			08-11-2013 14:42:44			+	
	X		12	Column2:	Reason Door Alarm	R	08-11-2013 14:47:50	08-11-2013 14:37:09		Normal	2	08-11-2013 14:3	08-11-2013 14:37:53			+	
			12			R	08-11-2013 14:20:13	08-11-2013 14:00:49		Normal	1					+	
			12		Apply Clear Save as favourite Close	S	08-11-2013 13:13:37	08-11-2013 13:13:37		Normal	0						
	X	_	12		Save as favourice Close	R	08-11-2013 12:04:02	08-11-2013 12:01:26		Normal			08-11-2013 12:02:10			*	
	X		12.			R	08-11-2013 12:03:59	08-11-2013 12:00:01	OK	Normal	1	08-11-2013 12:0	08-11-2013 12:00:34			•	

When the filter has been applied a new page with the filtered alarms will be present where the filter settings can be seen as well.

)verview		Alarms	onfigur	ation													
rm Lists															v -0	Admin:	Sup
urrent Ala	rms H	istorical Alarms	Histo	ory Alarm Filter1 🛛													
torical Alar															Sho	w pane	Per [
vourite: Hi ceived at: Fr			ype: Chain:	Refrigeration , HVAC , L	ghting , Energy Meter , Syst	em , M	iscellaneous										
	0: 0:0	c		1 : Site Nordbo										Edit filter		Save set	ing
count: 107	,												Show: 50	V K	Page	e 1 of 3	►H
st Ack.	Log Id	Site	U	Asset	Reason	Туре	Received at *	Active at site	Tri	Priority	с	Cancelled at	Cleared at	Ackno	Note	Con	-
Xa	125166	Nordborg L3	0	0 : AK-SM850	Test Alarm	R	07-11-2013 12:00:28	07-11-2013 12:00:02	OK	Normal	1	07-11-2013 12:0	07-11-2013 12:00:36	AK-EM800		٠	
X	123982	Nordborg L3	0	0 : AK-SM850	Test Alarm	R	06-11-2013 12:00:26	06-11-2013 12:00:00	OK	Normal	1	06-11-2013 12:0	06-11-2013 12:00:34	AK-EM800		+	
X	123946	Nordborg L3	0	0 : AK-SM850	Test Alarm	R	05-11-2013 12:00:23	05-11-2013 12:00:00	OK	Normal	1	05-11-2013 12:0	05-11-2013 12:00:33	AK-EM800		+	
X	123899	Nordborg L3	0	0 : AK-SM850	Test Alarm	R	04-11-2013 12:00:29	04-11-2013 12:00:02	OK	Normal	1	04-11-2013 12:0	04-11-2013 12:00:35	AK-EM800		+	
X	123872	Nordborg L3	0	0 : AK-SM850	Test Alarm	R	03-11-2013 19:47:26	03-11-2013 19:47:15	OK	Normal	1	03-11-2013 19:4	03-11-2013 19:47:54	AK-EM800		+	
X	123866	Nordborg L3	0	0 : AK-SM850	Test Alarm	R	03-11-2013 12:00:25	03-11-2013 12:00:01	OK	Normal	1	03-11-2013 12:0	03-11-2013 12:00:35	AK-EM800		+	
XI	123842	Nordborg L3	0	0 : AK-SM850	Test Alarm	R	02-11-2013 12:00:31	02-11-2013 12:00:02	OK	Normal	1	02-11-2013 12:0	02-11-2013 12:00:36	AK-EM800		•	



Suspended Alarms

Select Alarm -> Suspended sites / Assets

From the AK-EM 800 system, it is possible to suspend the alarms received from a Chain, site or an asset.

To add a new suspension rule click on Manage and press "Add"

Overview	Alarms	Configuration						
Suspended sites						•	?▼ © Adr	nin: Sup 🛛 🔻
Filter Select field:	None	*	Apply	Clear				
					Ad	a [Edit End	Done
Site		Chain	No. of assets	Suspension start *	Duration (DD:HH:MM)	User		Comment
			No items	to show.				
							Sho	ow: 50 🔻

1. Select the duration for the suspension

2. Select which site or asset should be suspended

3. Add a comment and Save

Overview Alarms	Configuration			
Back Add alarm suspens	ion			🛖 ?▼ ━© Manu: Adm 🛛 🔻
From: 06/09/201: 10:00 To: 06/11/201: 13:00				Save
Filter:	Apply			
Available assets	Expand a	Selected assets	Expand al	
Chain 1	•	Chain 1	•	
Danfoss wall L21	•	Danfoss wall L21	•	
0 : AK PC 781		0 : AK CC 550		
0 : Suction AA				
0 : Roomtemp				
0 : Temp in wall				
0 : AK-SC355				
Danfoss Offenbach	•			
Confice Danfoss	▶ .			
		•		
	1	•		
Comment: Controller beeing re	placed			
When a suspension	has been ad	ded it will be shown in	the list.	
It is also possible to	o see more de	tails about that particu	llar	
suspension, e.g. the	amount of t	ime left before the sus	pension is	
cancelled.				
cancelleu.				
The entry in the list	will automat	tically be deleted from	the list	
when the suspensi	on is over.			
To stop suspension	before time.	select the correct susp	ension line	
and press the End I		·····	-	
and press the End i				
		Overview Alarms	Configuration	
		Back Edit alarm suspension[Pa	nel GW]	♠ ?▼ -© Admin: Sup ▼
		Filter Select field:		

Add Edit End Done



Overview

Site Lists

Select Overview -> General -> Site Lists

The Site list is a list of complete entries in the AK-EM 800 system and can be filtered according to need as well.

From this list it is possible to do a manual collection of logs.

To start a manual collection of logs, press manage, choose a site and press the "Collect logs" button.

	Overview	Alarms	Config	guration											
s	ite List												🔺 ?▼ -© Admin	: Sup	,
F	ilter Select fiel	Name	v	demo	Ар	ply Clea	ar						🗌 Include	service log	s
												Collect logs Can	cel collection Sav	e setting	J
													Show:	50	I
I	Name ^		Chain		System	Alarm cou	Suspend	Last collection time	Log status	Comm. status	IP address	Last contacted time	Time since last coll	Conn	
1	Demowall De	nmark	Danfoss		AK-SM8XX	3	0	26/01/2016 16:05	Ok	Ok	188.180.111.35:80	26/01/2016 16:09	40m	•	
								_	Lact	contacto	d time. IT				

Like in the alarm list also here it is possible to rearange the list by drag & drop the column of press right mouse button on the headline. Press the save setting button to get the same picture on next logon.

_		I act contacted time
	~	Name
8	~	Chain
	~	System
	~	Alarm count
	~	Suspended assets
	~	Last collection time
	~	Log status
	~	Comm. status
	*	IP address
	~	Last contacted time
	~	Time since last collection
	~	Connect

Audit Trail

The Audit trail is where all actions made in the AK-EM 800 system is saved.

Audit trail can't be deleted, but archived (see archive section under configuration/system setting)

To show archived data as well, enable the "show archived data" checkbox.

The user can filter on all columns and export the result to PDF

Overvi	ew	Alarms	Configuration		
Audit Tra	ail				🔶 ? v 🗝 Admin: Sup 🛛 v
Filter	Du	To:	Image: 00 : 00 minimum Image: 00 : 00 minimum <	Column: None None Log on I Page nar Action	✓ ■ Id & name Apply Clear Show: 50
Log Id		Date & time 🎽	Log on Id & name	Page name	Action
	35728	26/01/2016 16:00	admin:Administrator	Login	Administrator logged into AK-EM800.
	35727	26/01/2016 16:00	admin:Administrator	Login	Administrator logged out of AK-EM800.



Reports

Select Overview -> General -> Reports

It is possible to present historical data in different ways in the AK-EM 800. This is done in the Graphs & Report function. It is possible to save favourite reports which can be opened for quick access to specific data.

To add a new report type or view data choose the "Add" option.

Overview Alarms Configuration		
Graphs & Reports		♠ ?▼ -© Manu: Adm ▼
Filter Favourite Apply Clear		
✓ Report template:HACCP Danfoss wall in L21 added successfully.		Add Edit Copy Delete Done
Favourite name	Report type	Created *
HACCP Danfoss wall in L21	Food quality report	06/04/2013 11:02:21
Multisite Foto and Temp Danfoss Wall	Custom graphing	06/04/2013 11:01:43
Alarm count per site per asset Chain 1	Alarm report	06/04/2013 11:00:30

Any report can be exported to Excel and/or PDF

Alarm Report

Select report "Alarm report" first.

Afterwards the user can decide between 3 different evaluations:

- 1. Alarm count per site per asset (shows the asset name and the store name and the alarm count. The one with the most alarm is on top)
- 2. Alarm count per site (shows site and alarm count presented in a table and a pie chart)
- 3. Alarm count per reason (shows reason and alarm count presented in a table and a pie chart)
- 1. Select the chain to make the report for
- 2. Select the duration for the alarms to be included in the report
- 3. Select the sites to be included in the report and either save this as a favourite or view to create the report.

Overview Alarms Configuration		
Edit report [Alarm count per site per asset Chain 1] Report		A ?▼ → Manu: Adm ▼ Save as favourite View
Report: Alarm report Type: Alarm count per site per asset Chain: Chain 1 Filter: Apply	Duration Logo: From: 05/01/2011 To: 06/04/2011 Add logo	
Available	Selected	
sites	sites Site Name	
No items to show.	Office Danfoss	
	Danfoss Offenbach Danfoss wall L21	



The Alarm Report will be opened in a new window, with a list sorted after the amount of alarms received pr. asset from the selected sites within the selected chain.

Alarm count per site per asset Chain: Danfoss Duration From: 01/06/2015 To: 15/07/2	015	
Site name	Asset name	Total alarm co
Demowall Denmark	0 : Lightsensor	987
Rainer homeoffice SM850	0 : Lightsensor	260
Demowall Denmark	0 : AK-SM8XX	236
Demowall Denmark	0:4:AK CC 550	147
Demowall Denmark	0:4:AK CT550A	131
Rainer homeoffice SM850	0 : AK-SM8XX	123
Demowall Denmark	0 : Temp in wall	93
Danfoss Of Serverraum	0 : AK-SM8XX	45
Rainer homeoffice SM850	0 : Stromzähler	38
Rainer homeoffice SM850	0 : Stromzähler	38
Rainer homeoffice SM850	0 : Stromzähler	36
Rainer homeoffice SM850	0:6:AK-CC750 AA2a	29
Demowall Denmark	0:4:AKCC550-3	27
Demowall Denmark	0:4:AKCC550-2	26
Painer homooffice CM950	0 : Lightconcor	2/

By double clicking on one of the lines it is possible to see further details for that particular asset

Back	Alarn	n count pe	er site per asset											
e na	ne: Der	nowall Denr	mark											
in:	Danfoss													
atio	n From	m: 01/06/20	015 To: 15/07/2015											
	í.	1	Î	1		T = -	Ĩ	Ĩ.	Ĩ.	ř	ī	ī ī		ĩ.
t	Ack.	Log Id	Site	Unit	Asset	Reason	Туре	Active at	Received at	Trip value	Priority	Count	Note	Li
6	1	60661	Demowall Denmark	0	0 : Lightsensor	Max.Fühlerwert	м	08/06/2015 10:24	08/06/2015 15:58	1171.1 Lx	Normal	o		•
6	1	60666	Demowall Denmark	0	0 : Lightsensor	Max.Fühlerwert	м	08/06/2015 10:08	08/06/2015 15:59	1179.7 Lx	Normal	0		+
	1	60667	Demowall Denmark	0	0 : Lightsensor	Max.Fühlerwert	м	08/06/2015 09:54	08/06/2015 15:59	1188.3 Lx	Normal	0		-
6								08/06/2015	08/06/2015					

By double clicking again on one of the alarms, more details can be seen.



Details	
Log Id	60661
Priority	Normal
Туре	Miscellaneous
Site	Demowall Denmark
Unit Id	0
Asset	0 : Lightsensor
Reason	Max.Fühlerwert
Count	0
Limit	Alarm wenn > 500.5Lx
Trip value	1171.1 Lx
Active at	08/06/2015 10:24
Received at	08/06/2015 15:58
Cancelled at	08/06/2015 15:26
Active at site	08/06/2015 10:24
Duration	5h:2m
Acknowledged at	08/06/2015 15:58
Action code	Action code 1
Acknowledged by	AK-EM800
Cleared at	08/06/2015 15:26
Cleared by	Demowall Denmark
Routed	Not sent



Alarm count per site

			Dante
arm count per site			
ain: Danfoss			
ration From: 01/07/2015 To: 16/07/2015			
e name		Total alarm count	
nfoss Of Serverraum			15
mowall Denmark			661
iner homeoffice SM850			120
Alarm count per site	Danfoss Of Serverraum		
	Demowall Denmark		
	Rainer homeoffice SM850		

Alarm count per site details (click on pie chart or double click on line)

		Dan						
Back Alarm count per site								
Chain: Danfoss	allin: Danfoss							
Duration From: 01/07/2015 To: 16/07/2015								
Site name	Asset name	Total alarm co						
Demowall Denmark	0:Lightsensor	443						
Demowall Denmark	0:AK-SM8XX	90						
Demowall Denmark	0:4:2:AK CC 550	53						
	0:4:10:AK CT550A	47						
Demowall Denmark								
Demowall Denmark Demowall Denmark	0:4:6:AKCC550-2	16						
	0:4:6:AKCC550-2 0:4:7:AKCC550-3	16 10						

More details by click on the line

Rack Narm count per site Site name: Demovall Denmark Chain: Danfoss Duration From: 01/07/2015												Danfo P		
St	Ack.	Log Id	Site	Unit	Asset	Reason	Туре	Active at	Received at	Trip value	Priority	Count	Note	Link
×	1	65740	Demowall Denmark	0	0:Lightsensor	Max.Fühlerwert	м	01/07/2015 06:59	01/07/2015 07:44	749,2 Lx	Normal	0		•
×	1	65742	Demowall Denmark	0	0:Lightsensor	Max.Fühlerwert	м	01/07/2015 07:44	01/07/2015 07:48	749,2 Lx	Normal	0		+
×	1	65743	Demowall Denmark	0	0:Lightsensor	Max.Fühlerwert	м	01/07/2015	01/07/2015	747,0 Lx	Normal	0		•



Alarm count per reason per site

Alarm count per reason per site			Danfots 17 Bu
Chain: Danfoss			5 –
Duration From: 01/07/2015 To: 16/07/2015			
Reason		Total alarm count	
DO2 Low Load			45 ^
HD Alarm			1
KeinKältemit.gew			4 ≡
Max. Temp.alarm			18
Max.Abtauzeit C			45
Po Alarm			6
S2 Fehler			6
S5 Fehler			2 +
Alarm count per reason per site			
	— DO2 Low Load		
	 HD Alarm KeinKältemit.gew 		
	 Keinkaltemit.gew Max. Temp.alarm 		
	Max. Heinplaiann		
	Po Alarm		
	S2 Fehler		
	S5 Fehler		
	AKS32 Fehler		
	Bierkühler Alarm		
	E/A Kommun.fehler		
	Eingang EIN		
	Max. Defrost time Exceeded A		
	Max.Fühlerwert Test Alarm		
	Testalarm		
	 Iestalarm Uhreinstellung pr üfen 		
	- On christenung pruren		

Alarm count per reason details (click on pie chart or double click on line)

Back Alarm count per reason per site		Danfor
Chain: Danfoss		
Duration From: 01/07/2015 To: 16/07/2015		
Site name	Total alarm count	
Rainer homeoffice SM850		63
Demowall Denmark		445

More details by click on the line

		,,												
E.														Danf
Back Alarm count per reason per site												•	nor 📓	
site nar	ite name: Demovall Denmark													-
hain: I	Danfoss													
ouratio	n Froi	m: 01/07/2	D15 To: 16/07/2015											
		1				1	1	1	1					
St	Ack.	Log Id	Site	Unit	Asset	Reason	Туре	Active at	Received at	Trip value	Priority	Count	Note	Link
×	1	67510	Demowall Denmark	0	0:Temp in wall	Max.Fühlerwert	м	08/07/2015 09:41	13/07/2015 09:49	36,5 °C	Critical	0		+
×	1	67511	Demowall Denmark	0	0:Lightsensor	Max.Fühlerwert	м	08/07/2015 09:41	08/07/2015 09:46	676,0 Lx	Normal	0		٠
¥.		67500	Demowall Denmark	0	0:Lighteensor	May Fühlenwert	м	08/07/2015	08/07/2015	605 3 Lv	Normal	0		-



Utility meter

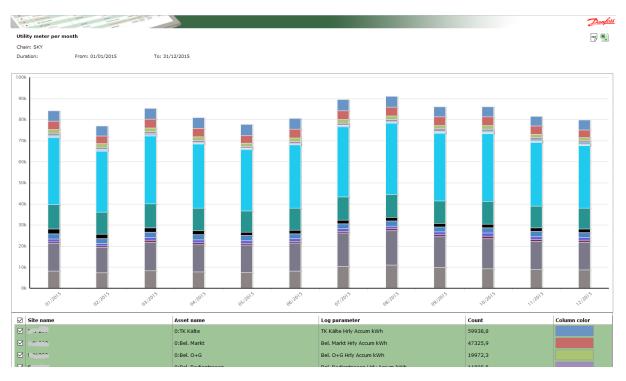
This report is not available for AKM sites. Select Overview -> Reports -> Utility meter

To present collected log data as bar chart select "Utility meter" as

- report and type
- 1. Select the chain to make the report for
- 2. Select the utility meter(s)
- 3. Select the time frame (e.g. a year)

Overview Alarms Co	nfiguration					
Back Create report					1	🛉 ?▼ -© Admin: Sup
Reports						Save as favourite View
Report: Utility meter report	v	Duration	Logo:			
Type: Utility meter report	▼	From: 01/01/2015	- hill			
		To: 31/12/2015	Danfoss			
	_		Add lo			
Filter:			Add IO	yo		
Filter: Apply				<u>a</u> n		
Filter: Apply		Selected		<u>jo</u>		
	•	Selected	Asset	Log parameter	Туре	Engineering units
wailable □ test site 1	•				Type Analog	Engineering units
vailable dest site 1 vailable	- -	Site	Asset 0:Backer 0:Backöfen	Log parameter Backer Hrly Accum kWh Backöfen Hrly Accum kWh		
vailable	•	Site	Asset 0:Bäcker	Log parameter Backer Hrly Accum kWh Backofen Hrly Accum kWh Bel. 0+6 Hrly Accum kWh	Analog	kw kw kw
vailable test site 1 vailable test site 2	- -	Site	Asset 0:Backer 0:Backöfen	Log parameter Backer Hrly Accum kWh Backöfen Hrly Accum kWh	Analog Analog	kw kw
vailable test site 1 vailable test site 2	- -	Site	Asset 0:Backer 0:Backofen 0:Bel. 0+G	Log parameter Backer Hrly Accum kWh Backofen Hrly Accum kWh Bel. 0+6 Hrly Accum kWh	Analog Analog Analog	kw kw kw
vailable dest site 1 vailable	- -	Site	Asset 0:Backofen 0:Bel.0+G 0:Helet 18	Log parameter Backer Hrly Accum kWh Backofen Hrly Accum kWh Bel. O+G Hrly Accum kWh Meter 18 Hrly Accum kWh	Analog Analog Analog Analog Analog	kw kw kw kw
Available	- -	Site	Asset 0:Backer 0:Backofen 0:Bel: 0+G 0:Meter 18 0:Meter 19	Log parameter Bäcker Hity Accum kWh Backöfen Hity Accum kWh Bel: 0+6 Hity Accum kWh Meter 18 Hity Accum kWh Meter 19 Hity Accum kWh	Analog Analog Analog Analog Analog Analog	kw kw kw kw kw

Press view and all selected utility meters are presented with monthly values. The legend below show also the consumption for the selected period.





A click on one of the bar graphs drills down into a daily view



Position the mouse over a field to get the details.

The report can be exported to Excel and also as a PDF.



Graphs

"Select Overview -> Graphs"

To present collected log data as a curve select "Custom Graphing" as Report type

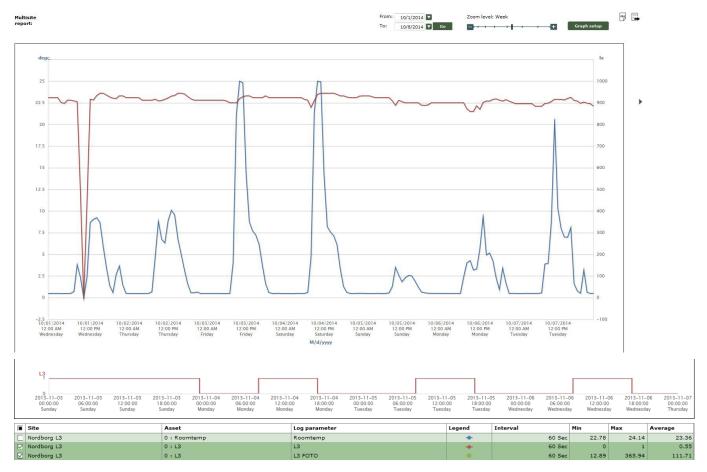
- 1. Select the chain to make the report for
- 2. Select from when the curve should be drawn
- 3. Select the parameters to be included in the report and either save this as a favourite or view to create the report.

Overview Alarms Configuration										
Graphs			☆	?▼ -© Admin: Sup ▼						
Graphs Save as favourite View										
Chain: Danfoss 💌	Chaint Danfoss V Duration Logor From: 08-11-2012 V Jackth To: 09-11-2012 V Add logo									
Available Digital	Selected (Digital:	L Analog: 2)								
Put Varseefeld	Site	Asset	Log parameter	Туре						
🗌 Danfoss Hünxe Rainer homeoffice 🛛 🕨	Nordborg L3	0:L3	L3 FOTO	Analog						
Nordborg L3	Nordborg L3	0 : Roomtemp	Roomtemp	Analog						
□0:L3 ▼	Nordborg L3	0 : L3	L3	Digital						

A curve will be drawn where the Y-axis is scaled according to the max. and min. values for the selected parameters

It is possible to select or deselect the parameters to be drawn. If Min. and Max. values are changed the graph will automatically be scaled.

Dependent on values a dual axis graph will be presented automatically.

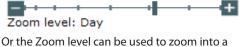




It is possible to Zoom into a specific area by clicking on the graph and drag the mouse to mark the area to Zoom into.



To move to the previous or next period for the selected Zoom level the arrows to either sides can be used.



predefined period.

If a digital parameter is selected it will be drawn just below the analog curve, with a different scale.



The duration of the graph can be changed.

From: 03-11-2015 To: 07-11-2015 Go

The scale of the graph can be changed. Press the button "Graph setup"

	Graph setup	×
ſ	Scale	
	🗹 Manual	
	Max: 350	Show sample points
-	Min: 10	Show grid
		✓ Show legend table
-		Yes No
L		



HACCP Report

The HACCP Report can only be made if the Food type association and HACCP Configuration has already been done.

- 1. Select the site to make the report for
- 2. Select the day to make the HACCP report for and either save this as a favourite or view to create the report.

Overv	iew Alarms C	onfiguration									
Back											
Repo	rt					Save as favourite View					
Report:	Food quality report		Juration	.ogo: 👝 hu							
	HACCP	F F	rom: 06/03/2013 🔽	Dantoss							
	Chain 1				Add logo						
Site:	Danfoss wall L21										

The HACCP Report will be opened in a new window, with a list of all the configured parameters.

- 1. To see more details press the Show Pane option
- 2. When a parameter is chosen the curves for it will be present just below.

HACCP report																										PO T
Site :																										
Date: 06-11-2015 V V V Setpoint deviation: 450 440 430 420 0.0 2.0 3.0 4	.0 5.0 E	Defrost:	Switch off:	No	data:]																			Sho	ow pane
Asset	High	Low Inter	val 00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	9:00 1	0:00	11:00	12:00	13:00	14:00	15:00 1	6:00	17:00	18:00 1	9:00	20:00 2	1:00 2	23	3:00
0 : 45 : TK-Insel 3.2	-18	-21	60sec.	-20.3 -2	0.6 -8.	-20.1	-20.5	-20.7	-20.5	-20.4	-20.5	-20.2	-20.5	-20.5	-19.5	-20.5	-20.5	-20.4	-20.5	-20.4	-20.1	-20.5	-20.1	-20.4	-20.5	-20.5
0 : 45 : TK-Insel 3.1	-18	-21	60sec.	19.6 -1	9.5 -10.	-19.3	-19.6	-19.5	-19.3	-19.4	-19.7	-19.5	-19.6	-19.5	-18.4	-19.4	-19.5	-19.3	-19.6	-19.6	-18.9	-19.9	-19	-19.4	-19.6	-19.5
0 : 45 : MOPRO-Kühlraum	6	2	60sec.	6.2	4.9 5.	4.8	5.7	5.1	7.3	5.9	5.3	5.5	5.5	5.1	7.5	5.6	6	5.4	5.5	4.9	6	5.6	5.6	4.5	5.8	5.1
0:45:0&G	6	2	60sec.	6	6 5/	5.8	5.9	6.2	5.9	6.5	5.8	5.9	5.8	6.3	5.4	6	5.9	6	6	6.1	6	5.8	5.7	5.8	5.8	5.7
0 : 45 : TK-Insel 1.1	-18	-21	60sec.	-8.6 -1	9.7 -19)	-19.3	-19.4	-19.5	-19.2	-19.6	-19.5	-19.5	-19.4	-19.8	-18.3	-19.4	-19.6	-19.3	-19.6	-19.5	-19	-19.7	-19.1	-19.3	-19.7	-19.5
0 : 45 : TK-Lager	-18	-21	60sec.	-19.1 -1	s.s -10.	-18.5	-19.1	-18.7	-19.2	-18.1	-15.1	-12.4	1.9	-13.8	-13.7	-13.6	-13.4	-14.5	-14.1	-14.2	-2.9	-15	-15.7	-16	-17	-17
0 : 45 : TK-Insel 1.3	-18	-21	60sec.	-11.7 -1	9.5 -19.	-19.4	-19.5	-19.5	-19.5	-19.5	-19.5	-19.2	-19.5	-19.5	-18.5	-19.4	-19.4	-19.4	-19.5	-19.5	-19.1	-19.5	-19.1	-19.5	-19.5	-19.5
0 : 45 : TK-Insel 1.2	-18	-21	60sec.	-9.4 -1	9.5 -19.	-19.3	-19.5	-19.7	-19.4	-19.6	-19.3	-19.7	-19.6	-19.7	-18.3	-19.4	-19.5	-19.3	-19.5	-19.5	-19.1	-19.7	-19.1	-19.4	-19.6	-19.5
0 : 45 : TK-Insel 2.2	-18	-21	60sec.	-19.3	6.9 -19.	-19.5	-19.4	-19.6	-19.4	-19.5	-19.4	-19.3	-19.6	-19.6	-18.4	-19.4	-19.5	-19.3	-19.5	-19.5	-19.1	-19.6	-19.1	-19.4	-19.5	-19.5
0 : 45 : TK-Insel 2.1	-15	-21	60sec.	19.3	7.9 -19.	-19.7	-19.5	-19.7	-19.2	-19.2	-19.8	-19.5	-19.2	-19.7	-18.5	-19.4	-19.6	-19.4	-19.7	-19.5	-19	-19.8	-19.1	-19.3	-19.7	-19.5
0 : 45 : WKR 2.1	3	0	60sec.	5.7	6 5.	6.8	5.9	6	5.8	6.1	6	7,4	6.1	5.9	5.5	6	6	6.9	6.3	5.8	5.9	6	5.9	6.8	6.3	5.8
0 : 45 : WKR 2.2	3	0	60sec.	5.8	6	5 6.8	6	6	5.9	6.1	5.9	7.2	6.1	5.8	5.5	5.9	6	7	6.1	5.9	5.8	6	5.8	6.8	6.1	5.8
0 : 45 : WKR 1.2	3	0	60sec.	5.7	5.9	5 6.5	5.9	5.9	5.9	6.2	6	7	5.6	5.9	5.5	6	5.9	6.9	5.9	6	5.8	6	5.8	6.8	6	5.8
0 : 45 : WKR 1.3	3	0	60sec.	6	6	5 6.5	5.9	6	6	6.1	5.8	7.3	6.1	5.9	5.5	6	5.9	6.8	6	6	5.7	5.9	5.8	6.8	6	5.8
0 - 45 - WKP 2 5			60mm	50	6		- 7	50	F	6	6	6	82	61		6	6	6	70	6.7	5.0	6	5.0	50	7.9	4
			0:45:	WKP 2 1																						
		0	10	WKK 2.1																						
		lues	7.5																							
		Val	7.5		-	-	-			-		-	-		-	-	-		-				-	-		
			5 00:00 01:	00 02:00	00:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:0	0 16:00	17:0	0 18:0	00 19:00	20:0	0 21:0	0 22:00	23:00	00:00
														Time (hh	:mm)											
			1		т						т						т						т			
			0																							
			00:00 01:	00 02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	0 14:00	15:0	16:00	17:0	18:0	19:00	20:0	0 21:0	0 22:00	23:00	00:00
			1																							
			00:00 01	00 02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:0	0 16:00	17:0	0 18:0	19:00	20.0	0 21:0	0 22:00	23:00	00:00
				02.01	50.00	- 1.00								12.00				10.00		- 10.0	10.00	20.0			-0.00	50.00



TQ (Temperature Quality) report

The TQ Report can only be made if the Report configuration (see site configuration) has already been done. In difference to the HACCP report, the TQ report will take the set point and not the food type as reference to present the colors.

- 1. Select the site to make the report for
- 2. Select the day to make the TQ report for and either save this as a favorite or view to create the report

Overv	view Alarms	Configuration			
Back	Edit report [TQ on ICA]				Admin: Sup ▼
Repo	rts				Save as favourite View
Report:	TQ Report		Date	Logo: The full	
	TQ Report		Date: 5/1/2014	Dantoss	
Chain:	Danfoss	T		Add logo	
Site:	Test site	•			

The TQ Report will be opened in a new window (or dependent on your browser setting in a new tab), with a list of all the configured parameters.

- 1. To see more details press the Show Pane option
- 2. When a parameter is chosen the curves for it will be present just below.

														-												Ort	
FQ Report																											PE
Chain: Danfoss																											-
Site : Test site																											
Site no: 1																											
Date: 5/1/2014 🔽 🖌 🕨																											
Setpoint deviation: -5.0 -4.0 -3.0 -2.0 0.0 2.0 3.0	4.0 5.0	Defrost:	Swit	ch off:	N	lo data:																				Sh Sh	low p
Asset	Set Point	Inte	erval	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	9:00	10:00 1	1:00 1	2:00	13:00 1	4:00	15:00	16:00	7:00	18:00	19:00	20:00	21:00	22:00	23:00
0 : 3 : 4-plansd 1K21A		0.5	600 sec.	1	1.1		1.2	2.8	3 1	1 1	1.1	1	1.2	1.2	1	0.8	1.1	3.9	0.8	1.1	0.8	1.3	1.1	1.1	0.9	3.4	4
0 : 3 : 4-plansd 1K21B		1.0	600 sec.	1.3	1.5	5	1.5	2.2	2 1.4	4 1.4	1.3	1.5	1.4	1.6	1.6	1.3	1.3	2.5	1.2	1.3	1.1	1.4	1.5	1.4	1.6	2.3	3
0 : 3 : 4-plansd 1K21C		1.0	600 sec.	1.3	1.4		1.5	2.2	2 0.8	8 1.3	1.4	1.3	1.2	1.4	1.2	1.2	1.3	2.2	1.3	1.2	1	1.2	1.2	1.2	1.2	2.5	5
0 : 3 : 4-plansd 1K21D		5.0	600 sec.	4.9	5.1	L	5	5.4	5.1	5.1	5.1	4.8	5.3	4.8	5.6	5.1	5.6	4.7	5.3	4.8	5.3	4.8	5.5	4.8	5.6	4.8	в
0 : 3 : 4-plansd 1K21E		5.0	600 sec.	5.1	5.6	5	5.3	5.2	2 5.1	1 5.3	5	4.6	5.3	4.9	5.2	5.1	5.4	4.6	5.2	4.9	4.9	5	5	5.1	5.2	5.3	3
0 : 3 : 4-plansd 1K22A		5.0	600 sec.	5.5	5.5	5	5.3	5.1	5.5	5 5.8	5.3	5.6	5.3	5.5	5.4	4.9	5.2	5.5	4.9	5.2	5.2	5.5	5	5.2	5.5	5	5
) : 3 : 4-plansd 1K22B		5.0	600 sec.	5.5	5	5	5.1	5.2	2 5	5 4.6	5.2	4.8	4.6	4.9	5.3	4.7	5	4.5	5.1	5	5	4.6	4.8	4.5	5.2	4.4	4
) : 3 : 4-plansd 1K22C		5.0	600 sec.	5.4	4.9	- 6	5.3	5.3	5.1	1 5	5.5	4.8	5	5	5.2	5.1	4.6	5.1	4.9	4.8	5.2	5	4.8	5.4	5	5.2	2 -
: 3 : 6-plansd 1K23A		5.0	600 sec.	6.1	5.7		6	6	5 5.6	5 6.2	5.6	5.8	6.5	6.4	6.2	6	5.8	6.2	6.1	6.3	5.9	5.9	6	6	6.1	5.7	7 -
: 3 : 6-plansd 1K23B		5.0	600 sec.	5.5	5.6	6	6.1	5.5	5 5.9	5.6	6	5.4	6	5.6	6	5.5	5.9	5.7	5.7	5.9	5.8	6.1	5.6	5.9	6	5.8	в -
1:3:6-plansd 1K34		0.5	600 sec.	1.1	3	3	1.3	0.7	0.9	9 2.5	2	1	1.1	1.1	1.1	0.9	1	1.1	1	3.1	0.9	1.2	1.2	1	1.2	1	1 -
: 3 : 6-plansd 1K15A		5.0	600 sec.	5.5	5.8	3	5.9	5.7	5.9	9 5.5	6	6	5.6	5.5	5.9	5.9	6	5.7	5.8	5.8	6	5.7	6	6.2	5.9	5.8	в -
) : 3 : 6-plansd 1K15B		5.0	600 sec.	5.7	6	5	6	5.5	5 6	5 5.6	6	6	5.5	5.5	5.5	5.9	5.8	5.8	5.1	5.6	5.6	5.7	5.7	6	5.6	5.6	6.
) : 3 : 6-plansd 1K15C		5.0	600 sec.	5.4	5.8	3	5.8	5.5	5 5.9	9 6	5.6	5.8	5.8	5.6	5.7	6	5.4	5.6	5.8	5.9	5.4	5.8	5.9	6.4	5.6	5.6	6 -
) : 3 : Manuell Fisk 1K		0.5	600 sec.	1.4	1.1		1.3	2.7	1 3	1 1.1	1	1.8	1.6	2.4	2.5	1.6	1.1	1.1	1.1	1.7	1.7	1.5	2.7	1.1	7.4	19.8	8 -
1:3:1-plansd 1K9A		2.0	600 sec.	2.4	2.3	2	2.3	2.5	5 2.4	4 2.4	2.4	2.3	4.1	2.4	2.3	2.2	2.1	2	2.2	2	2	4	2.2	2.7	2.4	2.4	4
) : 3 : 1-plansd 1K9B		1.9	600 sec.	2.7	2.5	5	3	2.4	2.5	5 2.2	2.5	2.6	5	7.6	2.9	2.4	2.5	2.3	2.5	2.3	2.3	4.5	7	2.3	2.4	2.5	5 -
D : 3 : 1-plansd 1K9C		2.0	600 sec.	2.4	2.7		3	2.3	3 2.2	2 2.2	2.7	2.8	5.8	8.1	2.9	2.5	3.1	3.2	2.8	3.4	2.7	5.5	8.7	2.9	2.9	3.4	4 -
) : 3 : 3-plansd 1K10		6.0	600 sec.	5.2	5.3	3	5.6	5.5	5 5.5	5 5.5	5.2	5.5	5.6	5.4	5.2	5.2	5.2	5.1	5.3	5.3	5.5	5.5	5.4	5.4	5.4	5.1	1 -
) : 3 : Kylr Mejeri 1K2		5.0	600 sec.	5.9	5.9	(6.1	5.9	9 5.9	9 5.9	6.2	6.9	5.7	7.4	6.1	6	6	6.3	6	6	6.2	8.1	6	6	6.1	5.8	в -
) : 3 : Kylr Mejeri 1K2		5.0	600 sec.	5.8	5.8	3	6.1	5.8	з е	5 6	6.2	6.3	6	6.7	6	5.8	5.9	6	6	5.8	5.8	7	6.1	5.9	6	5.9	9 -
) : 3 : Kylr Fisk 1K3		0.0	600 sec.	1.9		- 1	2	1.4	• 0.6	5 0.4	1.3	1.6	2	1.7	2.2	1.8	1.7	1.7	1.7	0.8	0.8	1.1	2.2	1.6	2	1.2	2 -
1:3:1K4 Kylrum		2.0	600 sec.	3	3.4		2.8	2.9	ə 3	3 2.9	3	3.7	3.1	2.9	2.8	2.7	3.1	3.1	2.7	4.3	3.1	2.2	2.9	2.7	2.9	2.8	в -
1:3:1K5 Kylrum Grön		5.0	600 sec.	6	6	5	6.4	6	5 5.8	5.8	6	6	6	6	6.5	5.9	5.9	5.9	5.9	6.2	6	6	6.5	6.1	5.9	5.9	9.
: 3 : Kylr Deli 1K6		1.0	600 sec.	2.4	2.4	• ••	2.6	3.6	5 2	2 2.4	2.2	2.4	2.5	2.8	2.3	3.6	2	2	2.2	2.3	2	2.1	2.5	3.9	2.7	2.4	4 -
1:4:1K30A Frysskåp		-26.0	600 sec.	-12.9	-14.8	3	-25	-24.9	-24.9	-24.3	-12	-17.6	-24.8	-25.4	-25.2	-24.9	-24.9	-25.1	-24.9	-25.1	-25	-25.3	-25	-24.9	-25	-25.2	z -
I:4:1K30B Frysskåp		-26.0	600 sec.	-12.9	-14.4		-25	-25.6	-25.1	-25.3	-13.2	-16.9	-24.2	-24.9	-24.8	-25.1	-25.1	-24.7	-24.2	-25.2	-25.5	-25.2	-25.3	-24.8	-25	-25.1	1 -
) : 4 : 1K30C Frysskåp		-26.0	600 sec.	-13.9	-13	3	-24.7	-25.2	-24.9	-24.4	-12	-14.8	-23.9	-24.8	-25.3	-25.1	-24.4	-24.8	-24.8	-25.1	-25.2	-25.4	-25	-24.8	-25.6	-25.3	3 -
) : 4 : 1K30D Frysskåp	1	-26.0	600 sec.	-12.7	-4.7		-23.8	-24.3	-24.4	4 -24.7	-12.9	-4	-20.7	-22.7	-23.3	-23.7	-23.9	-23.6	-23.6	-24	-23.9	-23	-23.2	-23.5	-23.8	-23.9	9 -
0 : 4 : 1K28 Frysrum		-23.0	600 sec.	-21.8	-21.6	5	-21.8	-21.8	-21.8	-22	-22.2	-17.2	-21	-21.8	-22	-21.8	-22	-21.7	-22	-22	-20.8	-20.1	-21.5	-15.3	-20	-21.8	в -
): 4 : 1K31 Frysskåp	1	-26.0	600 sec.	-24.9	-24.2	2	-25.2	-25	-24.8	-24.4	-24.8	-14.1	-23.6	-23.7	-25	-24.9	-24.7	-24.9	-24.3	-11.9	-23.2	-24.3	-25.2	-24.8	-25.1	-25.1	1
1 5 - Kvir Avfall 2K1		6.0	600 sec.	7			6.9	6.9	6.9	9 7.1	7	7	7.4	7	6.9	6.9	6.9	6.9	6.9	7.1	7.8	7	6.9	6.9	7.1	6.8	4



Webservice with API

AK-EM 800 is able to exchange data with other systems. If this is needed the customer has to order an extra license called Webservice. AK-EM 800 is using API's (application programming interface) to allow the user to get data out of the AK-EM 800 database.

The documentation is embedded in the AK-EM 800 itself. Instead of using the link to AK-EM800 like <u>http://localhost:8080/AK_EM800</u> (localhost is here only a placeholder if AK_EM 800 it called on the machine where it's installed) use following link. <u>http://localhost:8080/mws</u>.

The browser should show following:

API Documentation ×					
😝 API docum	entation	username	password	api key	Explore

A user can in his user group associated to be part of Webservices. Type in username, password and as API key "accesssecret" to get following screen.

🕀 API documentation	admin	•••••	accesssecret	Explore
/ackalarms			Show/Hide List Operatio	ns Expand Operations
/assetlist			Show/Hide List Operatio	ns Expand Operations
/logdata			Show/Hide List Operatio	ns Expand Operations
/sitedetails			Show/Hide List Operatio	ns Expand Operations
/assetdetails			Show/Hide List Operatio	ns Expand Operations
/clearalarms			Show/Hide List Operatio	ns Expand Operations
/regions			Show/Hide List Operatio	ns Expand Operations
/loglist			Show/Hide List Operatio	ns Expand Operations
/sitelist			Show/Hide List Operatio	ns Expand Operations
/alarmdetails			Show/Hide List Operatio	ns Expand Operations
/alarmlist			Show/Hide List Operatio	ns Expand Operations

The listed lines are displaying the commands, which are available today.

/ackalarms	<
/assetlist	Alarm acknowledgement
/logdata	Asset list Returns circuits
/sitedetails	Returns suctions Returns refrigeration racks
/assetdetails	Returns meters Returns light zones
/clearalarms	Returns cases Returns HVAC's Returns assets
/regions	Returns logdata Returns site with specified site id
/loglist	Returns asset with specified asset id Clears alarms based on asset id or site id or the given list of alarm ids.
/sitelist	List of ids should be separated by (pip • Returns all regions
/alarmdetails	Returns logs Returns sites
/alarmlist	Returns alarms with specified alarm id Returns alarms



The documentation allows also to test commands. Click on one of the commands (e.g. on /sitelist). A new line will be visible.

the commands (e.g. on /sitelist). A new	v line will be visible.				
	/sitelist		Show/Hide	List Operations	Expand Operations
	GET /sitelist				Returns sites
Click on get, to see more details.					
	/sitelist		Show/Hide	List Operations	Expand Operations
	GET /sitelist				Returns sites
	Response Class			Model	Model Schema
	List[void]				
	Response Content Type application/json 🔻				
	Parameters				
	Parameter Value	Description	Data Type		

Parameter	Value	Description	Data Type
count		num of sites to be returned, default 100	int
start_index		start index of sites	int
compress	•	compress response	boolean
details		detailed response	boolean
region_id		region id	int
Try it out!			

Now click on the button "Try it out" to get the results of this command.

Try it out! Hide Response
Request URL
/mws/0/sitelist
Response Body
{
"total": 43,
"errorCode": 0,
"sitelist": [
{
"system_type": "AK-SM8XX",
"region_id": 2,
"site_number": 1,
"site_id": 2,
"site_name": "office SM850"
},
{
"system_type": "AK-SM8XX",
"region_id": 2,
"site_number": 2,
"site_id": 3,
"site_name": "Demowall Denmark"

This works for all commands. In some of them are mandatory fields which have to be filled in. The needed information needs to be copied from another command.

E.g. the site Id in the picture above is needed in other commands to get alarms from a particular site.

The following table shows, how to order the additional license.

Sites	Order no.
1	080Z4107
50	080Z4108
250	080Z4109
500	080Z4110



Appendix

Time zone settings

Time zone handling at AK-EM 800		Option selected by the	user
	UTC	User Local Time (will be detected via Browser)	Site Local Time
Database handling	UTC	UTC	UTC
Site List	UTC	User Local	Site Local
Audit Trail	UTC	User Local	EM800 Local
Graph and Reports Template creation date	UTC	User Local	EM800 Local
Graph/HACCP view	Site Local	Site Local	Site Local
Alarm List			
Alarms from sites	UTC	User Local	Site Local
AK-EM 800 System alarms that do not belong to any site	UTC	User Local	EM800 Local
Suspended Site/Assets	Site Local	Site Local	Site Local
Destinations			
System Settings			
Alarm Routes/ Email routing	Site Local	Site Local	Site Local
System Alarms			
Users			
Contractors			
Site			
Chain			
Export to XML	UTC	UTC	UTC
Export to PDF	-	appearing on Export w er is viewing on AK-EM 8	





ENGINEERING TOMORROW

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