



# SIREN CONTROL CENTRE

## TURNKEY SOLUTION FOR SIREN ALERTING



The control and administration of the sirens is made via the PC SOFTWARE LSR 145, which is operated by users/operators at the rescue coordination centre. All alert objects (sirens, emergency cars etc.) are shown on a topographical map. The operator can select marked sirens on the map and use their full functions via the control centre.

Communication between the control centre and the sirens takes place via a radio system (FUA-COMP). The control centre is connected with the radio system via ethernet. Via internet it is possible to communicate with other control centres of the same system or to update diverse data.



### ADVANTAGES & FUNCTIONS

- flexible multi monitor system, which enables you to monitor all relevant data simultaneously:
  - monitor 1 for triggering alerts and managing of the data bases and software functions.
  - monitor 2 for map view
  - monitor 3 for customized display
- alerting of single sirens or siren groups
- siren status scan
- modification of siren data
- modification of radio system data
- direct recording of the alerted siren after a performed alert
- map with zoom function and drag mode
- status request of all sirens
- flexible and detailed adjustment possibilities for right adaption to your network structure and requirements
- automatic storage of all incoming status information
- different user sections that make it possible to assign individual user rights within the system
- fast triggering of alerts in case of a disaster
- free recording of the alert system to inform people independently of the situation
- choice of predefined alert groups to accelerate alerting
- facility for a dynamic group formation to react to unforeseen emergency cases
- automatic status request of all participant system devices to react promptly in case of errors
- automatic logging of all important operating sequences within the system log file (for the surveillance of the control centre activities (triggered alert, data base changes, control centre start/end, status requests...))
- immediate forwarding of all incoming status information to a superior level

## PC SPECIFICATIONS

The control centre PC is always up-to-date according to the PC market developments. For this reason we will not declare commercially available PC data in this brochure. To guarantee faultless operation of the control centre software, the PC has to be purchased from SONNENBURG. Two PC versions are available.



The standard version consists of common PC components, currently offered on the market. This PC will suit most purposes.



The industrial version consists of component that were specially developed for industrial environment. This PC has a higher system stability which is necessary in various environments e.g. in case of higher temperatures.

On request, both versions are available for inch brackets. An optional available USP is recommended to guarantee a faultless system operation in case of power failure.

## MONITOR OPTIONS

We recommend a 2-monitor control centre solution. Two versions are possible. In the standard version we offer two up-to-date LCD monitors. If a fast and intuitive operation is necessary or if the control centre operation with a mouse and keyboard is limited, we recommend a 2-touch-screen version. With this solution the operator has an easy handling of the control centre.



## SOFTWARE DESCRIPTION

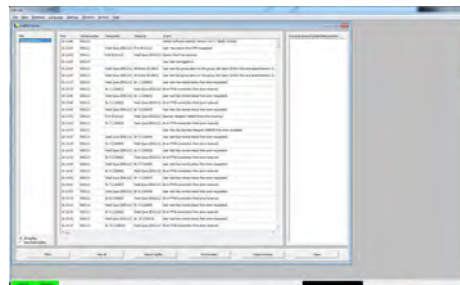
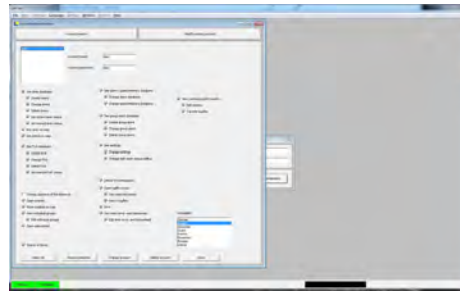
### Function of the software

The software consists of two primary parts, the administration monitor on the left and the map monitor on the right. The map supports most known map function such as zoom or drag mode. In addition, the user can mark sections and set the alert for the chosen sirens easily. To react faster and more effectively to unforeseen cases of disasters, there is an option to form predefined groups. When the sirens, whose alerts shall be triggered, are being defined, the operator only has to choose the kind of alert (e.g. alert, fire alert or all-clear) and the voice memory at the end of an alert. After a final confirmation of the operator, the control centre automatically commences the necessary procedures. After triggering the alert, the control centre checks all participant peripheral devices through a status request.

## Safety and traceability

To guarantee data safety and functionality of the system the software is able to regulate free configurable rights for different control centre operators. Each operator has to identify him- or herself via an username and the respective password. This way it is possible to install different users levels according to individual requirements, e.g. service technicians have the access right to modify siren data while a common user is not allowed to do such a modification. To remedy possible failures quickly and safely, all software actions or user actions are recorded in a log file.

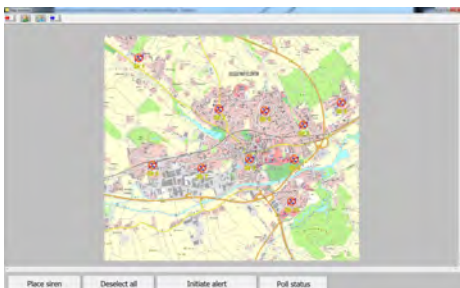
A status message of each peripheral device will be archived as well to enable failure search via a longer period. In case of a critical error diagnose, that will affect the system strongly, the software will signal this optically and/or acoustically. In addition, it is also possible to print the log file data on to a connected protocol printer.



## Creation of alert plans

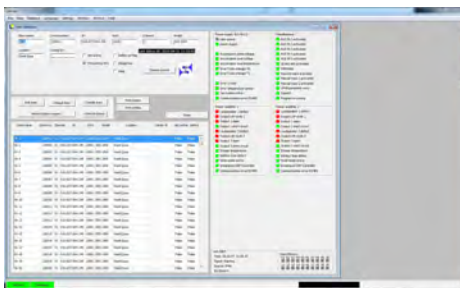
A menu is designated for a certain scenario plan. In this plan it is possible to activate a single siren, a dynamic group of sirens (max. 50) or a group alert. Here, type of alert and voice memory can be defined. If all selections are made, the whole scenario plan can be saved under a special name. Currently 8 scenarios are designated. A simply click will activate the requested setting.

## ADDITIONAL FUNCTIONS:



In addition to the already mentioned functions, there is a considerable number of additional software functions.

Above all it's to mention the possibility to integrate different measuring instruments such as anemometers or landslide sensors of SONNENBURG. The integration of such measuring instruments enables in case of a catastrophe or disasters a quick alert activation without human operators. This is necessary if you have to react promptly to the event.



In addition, the software can automatically check the status of all system devices to a fixed time in order to detect failures before an disaster event. However, some of the failures are only detectable if the siren is active. Therefore the software allows you to activate a hearable test alert e.g. every first saturday in the month (it can also be a silent 20 kHz test). Given is also the option to transfer all received status report data to a second control centre so that all relevant data of a local control centre can be forwarded to a nationwide main control centre.

## SYSTEM LAYOUT

The general system layout is a concept in which all devices are interconnected with each other in a certain way. Above all is the control centre PC that is connected with the FUA via the ethernet. The FUA is a kind of gateway access which regulates the transfer of the outgoing network signal from the control centre into the radio network.

Due to the fact that within a radio network it is especially important, that transmitter/receiver are placed in a convenient position, it is very handy that the FUA can be placed in a nearly randomly far position away from the control centre PC, as long as an ethernet connection is available. This fact is especially positive if a higher placed main control centre must guide all existing FUAs of the system via internet or a VPN network.

Has the FUA signal been transferred into a radio telegram, will this be sent and all peripheral devices of the radio system thus can be reached.

In addition, there is a possibility to fit the FUA with a GSM module instead of a radio transceiver. With this siren data can be transferred via an existing GSM net.

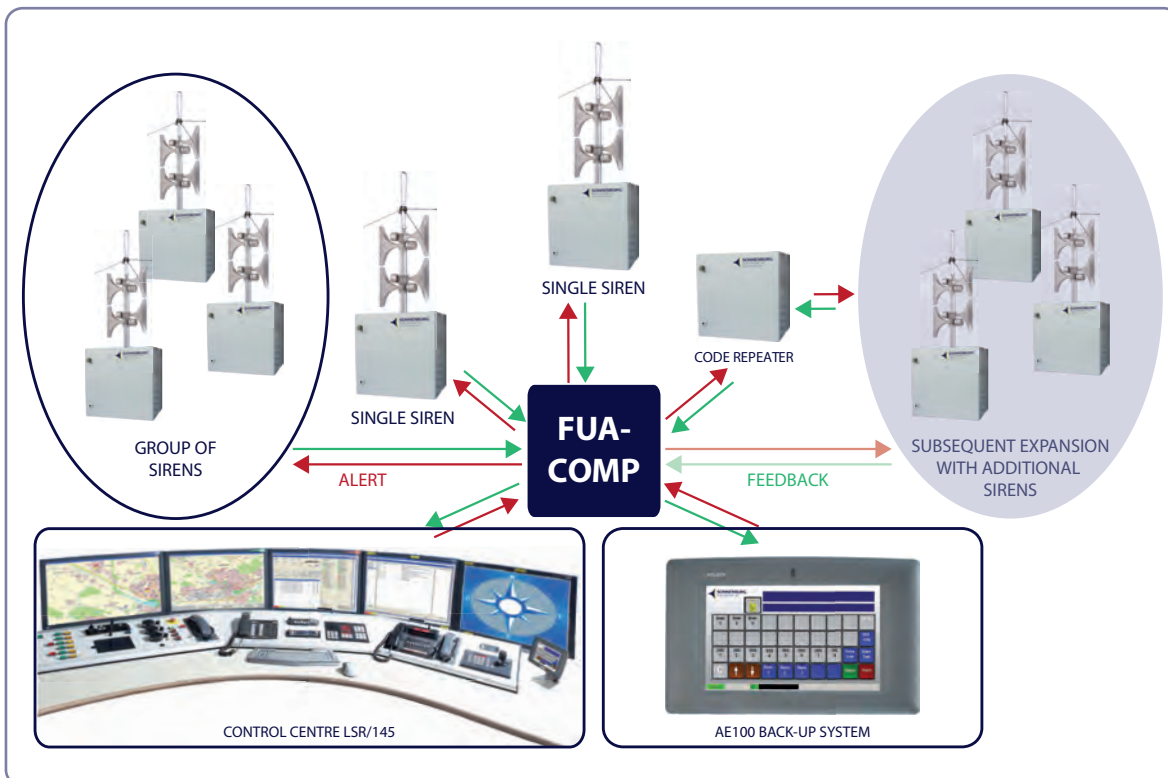
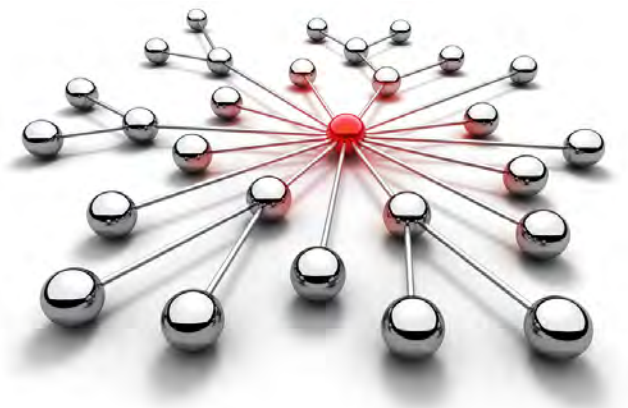


Fig.: Realisation of a modern mass notification system

## BACKUP SYSTEM

In case of a default control centre, there is the possibility to use the backup system device AE-100A. With the AE-100A, basic alerting and status request functions of a PC control centre can be used by an operator to guarantee emergency supply.