MoLaRi

Control Room Application

The most important component of MoLaRi from the supervisor personnel point of view is the Control Room Application providing a simple and intuitive interface integrating all system components while hiding the complexity of the system from its users.

Measurement Data

The meteorological and gas concentration measurement data as well as the alarms from these devices are transported to a database. The database is constructed to be able to store and process all the measurement data for year even in large scale of installation.

The client application provides an easy geographical view of the sites and the installed measurement devices. The interface shows a very quick color presentation of the alarm status of the measurement devices so it is easy to get informed about the general status of the supervised sites in seconds. The interface can handle multiple level topologies (e.g. factories, regions, and country).

Having a look at the country level view it is still a matter of second to see if there is any alarm in any of the monitored sites in the country.

Selecting individual monitoring devices allows checking the detailed measurement data for each device.

Alarms

Should there be any alarming situation at a monitored site (e.g. toxic gas emission) one or several monitoring devices are sending alarm signals to the Control Room Application. In alarming mode the devices increases the measurement frequency to give more detailed information during the alarming period.

Receiving the alarm signal, The Control Room Application produces visual and audible alarm to the supervisor personnel to take attention to the situation.

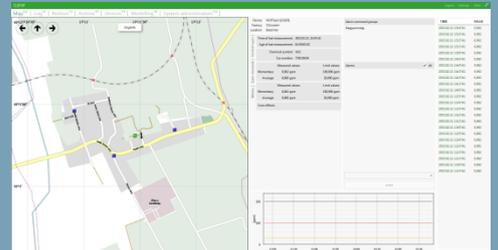In the alarm view the personnel can overview all the alarms from all the sites grouped by site.

When starting to work with the alarms they can be acknowledged so the audible alarm would not disturb the handling of the situation.

Action Plans

The system supports defining different action plans for the supervision personnel for each site and warning or alarm levels. The contact details can be stored for each person or organization that may be contacted during the implementation of the action plan. It is possible to document each step of the action plan for each event for later reference.

Early Warning

In case of an event would endanger either the population or the employees of the affected site it become necessary to inform the people about the situation and what they have to do for their safety.

The Control Room application lets the supervisor personnel remote control the alarm sirens installed in and/or around the site either in pre-defined siren groups or even individually and transmit signals, pre-recorded or even live speech information.

Scope

The application providing all the above modules in a simple unified interface supports an effective workflow for handling industrial or environmental events.

Potentials

The system – thanks to its flexible design – optionally equipped with other sensors (water or soil contamination, water level etc.) or other controlled devices (e.g. energetic or traffic control) is ready to be adopted to several other telemetric and remote control applications.