LightGuard Monitor

Intelligent Remote Control

LightGuard Monitor is an intelligent web-based software solution for monitoring fixed and floating aids to navigation.

Optionally, it can also be used to monitor marine traffic using real-time AIS data on a real ENC chart. For the purposes of fleet management, specific ships can be permanently marked thus enabling them to be tracked easily. LightGuard Monitor is therefore also suitable for monitoring shipping and temporary navigation lights on offshore wind farm construction sites.

The state-of-the-art, web-based interface means that it can be used on any Internet enabled desktop computer, laptop or tablet regardless of the hardware and the operating system installed.

We have also developed the LightGuard Monitor app for mobile access to the data of your monitored stations. SMC-enabled SABIK lights facilitate two-way communication via GSM.

With a special superuser access, it is then possible to set up, program or test new stations. Carmanah lights enable one-way communication via GlobalStar satellite. You decide whether your data is stored on a secure SABIK server, a local server close by or even on your own server. With a primary server and a secondary server, there are always two spare data stores no matter what.

1 Fixed or floating AtoNs with LightGuard outstation hardware installed

2 Data is transmitted via GSM, Satellite or AIS to land based communication network

3 All data is delivered to the LightGuard server

4 LightGuard Monitor issues alarm messages to officer on duty in case of an critical event

5 LightGuard Monitor uses a web-based software interface to display the determined data on a PC or tablet or displays them on a smartphone via an app

List view
The list view uses simple symbols to show the most important details at a glance, such as alarm, light on/off and the status of communication.

Detail view
The detail view provides a quick overview of more important parameters, such as battery status and on and off times of the stations.

Search and sort
Well designed search and sort functions enable fast access to specific stations, for example to all stations with a reported alarm.

Status report
Selecting a station provides you with a detailed status report with chart views without losing sight of all the other stations.

Configuration
Accessing the configuration of a station is just as easy as accessing the status, assuming the user has the appropriate access rights.

Two-way communication
Two-way communication makes it possible to set up, configure or test new stations via the software interface.

Map display
In addition to having all stations clearly displayed in a list, they can also be displayed with the status symbols on different charts.

Map selection
A variety of chart views can be selected for displaying stations, these include e.g. marine charts with a variable degree of image detail or satellite images.

LightGuard Server
With a primary server and a secondary server, there are always two redundant data stores no matter what.

Security
A password prompt protects the software against unauthorized access attempts. A 2-factor authentication process for login provides a further level of security.

Smartphone APP
We have also developed the LightGuard Monitor app. You can keep an eye on your monitored data at all times with an Internet-enabled smartphone.