



## *Mobile Control and Monitoring Centre E742*

Mobile Control Centre is a portable work station for the field installation and service of the remote monitoring and control systems of lighthouses, beacons and buoys. It consists of a laptop computer and of communication and power supply modules, installed into a carry-bag. It can be connected with two communication network. Using the mobile phone of the centerall subscribers of the mobile or ordinary telephone networks are accessible. Through the field network it can be connected with the local area network of a light

### *Main features*

#### *operations via mobile phone network:*

- authorized data exchange with any light integrated into the remote monitoring and control system independently on their location or belonging to regional centers. This allows:
  - > to test the actual functioning of the light, the state of it's energy resources and control equipment
  - > to perform the remote modification of the parameters of a light
- data exchange with a regional control centre e.g. viewing of daily reports
- establishing temporary regional control centres for the purposes of system installation and testing
- phone conversations with any subscribers of the telephone network (mobile or ordinary)

#### *operations via field network:*

- connecting to the local area network of a light
- installation of the control system and setting up the parameters of equipment units
- testing the functioning of the system and reading the actual state of the equipment units and energy resources during maintenance sessions

## **Specification**

### **Hardware**

Lap-top computer PC Rocky  
 NMT-450 NOKIA\* mobile phone with the aerial  
 Power adapter ~220V/12V DC  
 Autoadapter of the computer DC/DC and spare battery  
 Additional battery 12V, 2.1Ah  
 Controller of the power supply commutation, voltage measurement, and display  
 RS485 - field network adapter E814  
 Phone handset  
 Carry bag

### **Input voltages**

Mains 220V 50Hz  
 External DC source 11.5 - 15.5V

### **Minimum NMT- 450 input level**

-80dBm 22,4μV on the load 50Ω

**Mobile phone network** Data rate 9600bps, authorized access to all lights in the remote monitoring and control system, phone conversations with any subscriber of the mobile or ordinary telephone network

**Field network** Interface RS485, data rate 20kbps, number of nodes up to 32, length of twisted pair line up to 1.2km

**Software** REGIONAL CENTRE - the remote monitoring and control software of aids to navigation  
FRONTEND - communication program  
LANSERV PLUS - service software

**Temperature range** -10° C up to +45° C

**Relative humidity** up to 90% at the temperature +35° C

**Dimensions** 240x350x460mm (in carry-bag)

**Weight** 8kg

\*) Optionally it can be ordered for the GSM-900 mobile phone network

E742-20012302