TSUNAMI WARNING SYSTEM

alerting digital device

TAD (Tsunami Alert Display)

TAD (Tsunami Alert Display) automatically detects a rising wave and alert people on the nearby beach. The goal is to demonstrate that by measuring sea level at one specific location and analyzing this data in real time, it is possible to issue an alarm at an entirely different location.

The tsunami warning system consists of:

● Long range siren, composed of one control box (including communication and control device) and four cones to send the information in all directions.

● Led digital panel for displaying warning messages.

● Short range siren and loudspeaker.

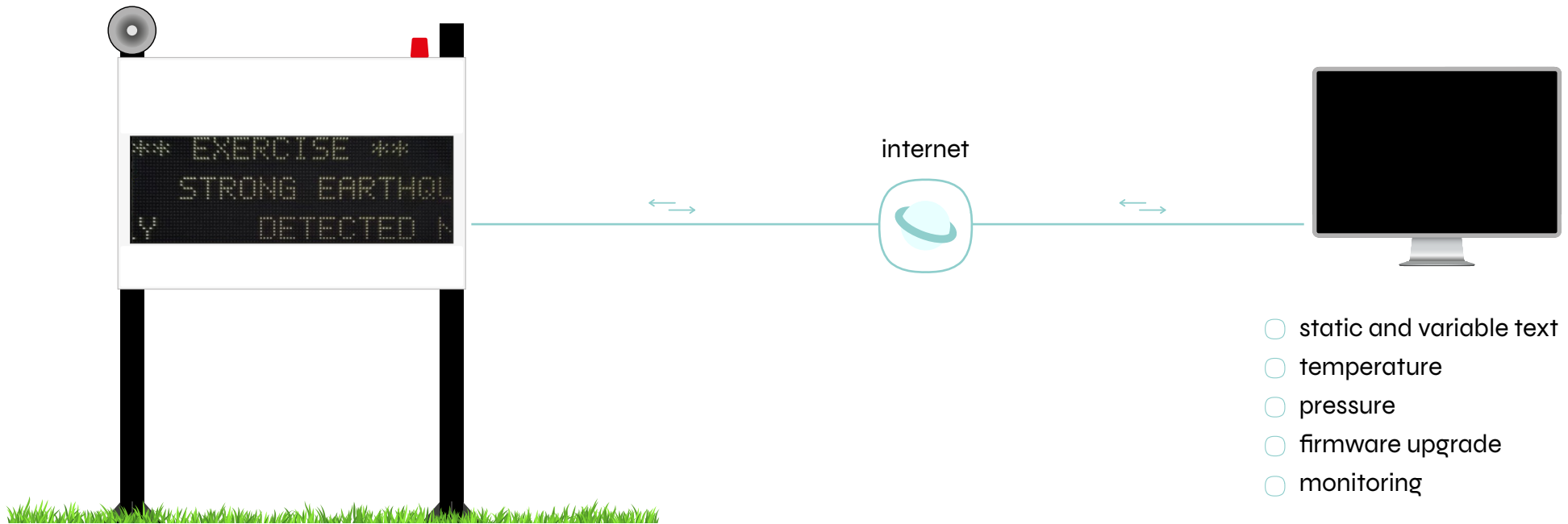● 3G module for connection and communication with JRC server

FUNCTIONALITY

TAD panel, in the absence of alerts, the panel becomes interactive, providing the following features:

- [ ] insert static and variable text messages;
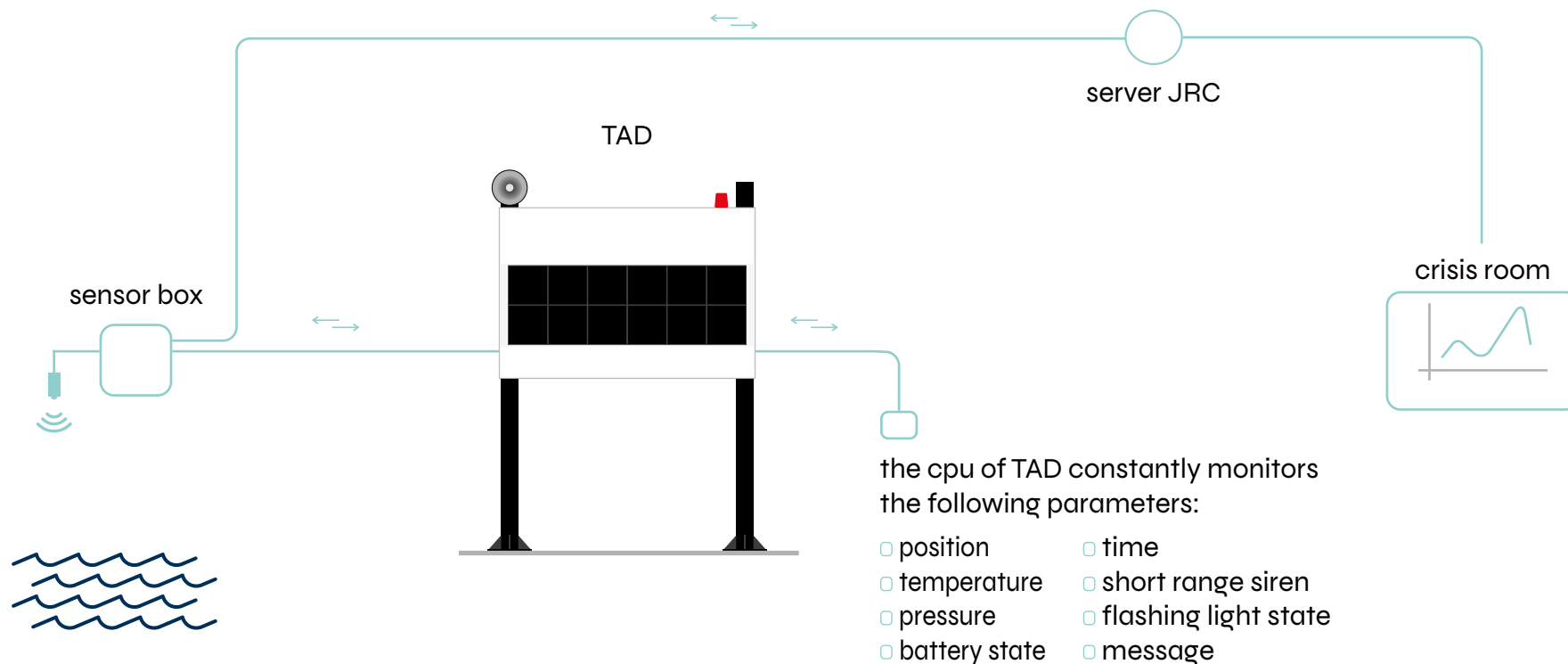- [ ] display temperature and atmospheric pressure values;

Panel management is remote. Through access to a portal it will be possible to send messages and parameters. Firmware updating is also done remotely.

internet

*** EXERCISE ***
STRONG EARTHQU
Y DETECTED N

- ( ) static and variable text
- ( ) temperature
- ( ) pressure
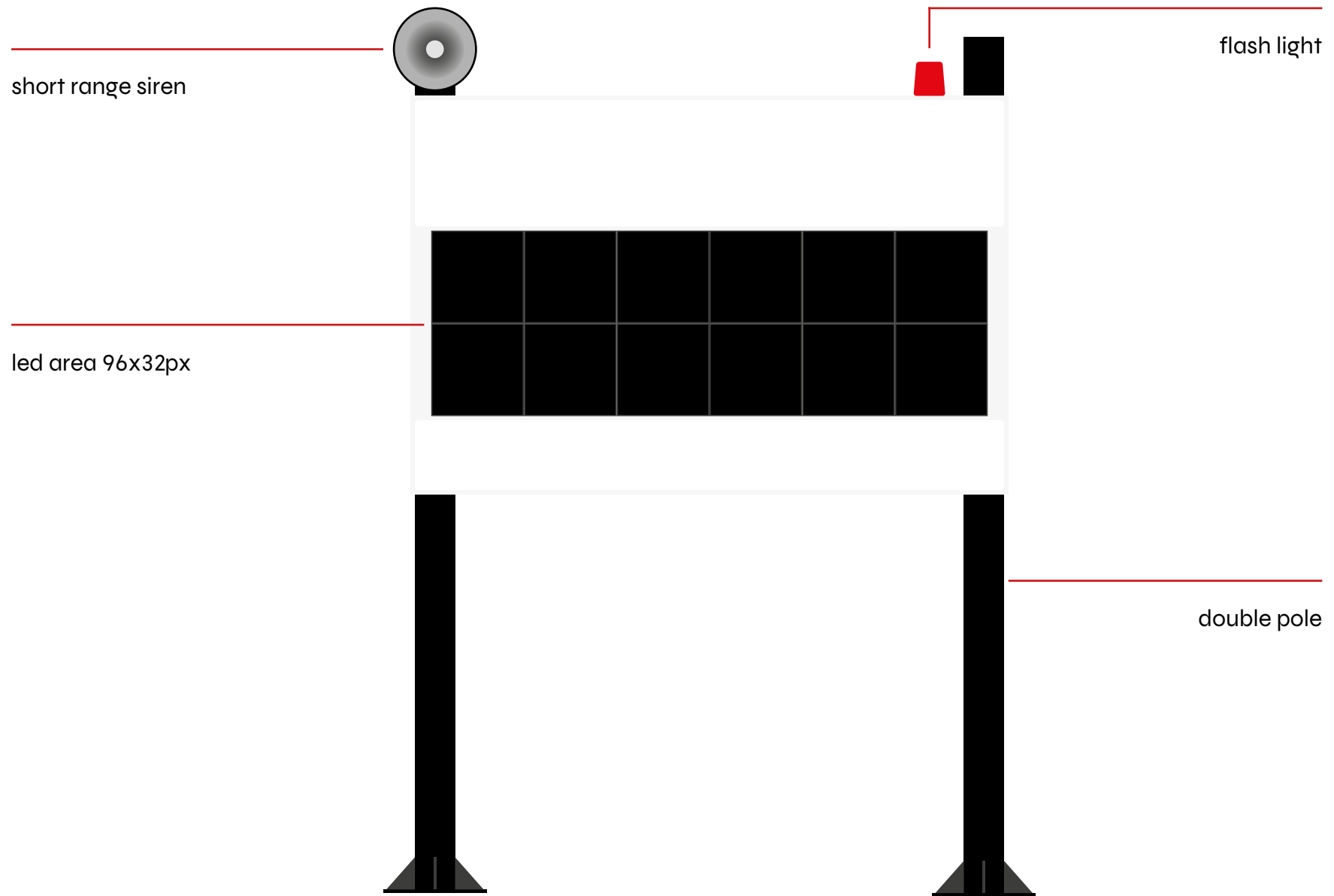- ( ) firmware upgrade
- ( ) monitoring

OPERATION AND CONNECTIONS

The warning system needs a few seconds (about 30 s) to process the data from the sensors and sonar. During processing, the control unit identifies and confirms the tsunami warning, excluding false alarms.

Once the tsunami warning is detected and confirmed, TAD will provide visual and audible feedback: a warning message will be displayed and the whole sound system will be activated at the same time.

server JRC

TAD

sensor box

crisis room

the cpu of TAD constantly monitors the following parameters:

- position
- temperature
- pressure
- battery state
- time
- short range siren
- flashing light state
- message

TAD OVERVIEW

short range siren

flash light

led area 96x32px

double pole

TAD DATA SHEET

TAD 96x32 P16

DIGITAL PANEL DIMENSION: 1650x1100 mm

LED AREA DIMENSION: 1536x512 mm

WEIGHT: 50 Kg

IP PROTECTION: IP54

CABINET INFO: aluminium | inox

SCREEN FRONT: plastic mask protection

VIEWING DISTANCE: max 70 meters

BRIGHTNESS: automatic

GRAPHICS: included and customizable

PIXEL TYPE: SMD

RESOLUTION: 96x32 px

PITCH: 16 mm

N° OF COLOR: 7

N° OF LINE: 3

N° OF CHARACTERS: 48

N° OF PIXEL: 1536

CHARACTER HEIGHT: 110 mm

DRIVER: R.B. System

CONNECTIONS: Lan Ethernet / GPRS (SIM card is excluded)

KIND OF MESSAGE EDITABLE: static, scrolling, by page

CPU SYSTEM:

FIRMWARE UPDATE: firmware will be update from remote

EQUIPMENT: temperature sensor, clock, GPS, GPRS, long and short range sirens, flash light, loudspeakers

LONG RANGE SIREN DISTANCE: > 2500 meters

LONG RANGE SIREN TYPE: La Sonora Vedetta ABM 500 4TA with 1200 mm support

WORKING TIME WITHOUT AC: 1,5 days (1 battery pack) | 4.5 days (1 battery pack)

SHORT RANGE SIREN: it is positioned on the top of the panel

INSTALLATION: panel is fixed to the ground using double pole

FIXING: self standing with a proper mechanical structure in a open flat surface

TAD SIZE

TAD 96x32 P10

1650 mm

1100 mm

top banner
1626x349 mm

led area
1536x512 mm

bottom banner
1626x193 mm

LONG RANGE SIREN DATA SHEET

VEDETTA ABM 500 4TA

This model consists of 4 aluminum fuse horns of our exclusive production and 1 cupboard for operation. The power of the siren is made with two batteries Pb kept charged by a power buffer 230V. Can be activated by local contacts or via LPD system. Self-test and diagnostics to check for any abnormalities.

SOUND
Level: 140dB@1mDirectional |134db@1mOmnidirectional
Different modulations: 3
Horn number: 4
Sound generator number: 1x500W

POWER SUPPLY
Voltage Rating: 100÷240Vac
Frequency: 50÷60Hz
Rated: 100VA
Maximum Current: 3A
Isolation class: II

MECHANICAL
Building materials: Polyster/aluminum
Box Weight: 15 kg
Maximum Size Box: 210x410xh650mm – Horn 630x15xh600mm
Horn building material: aluminum (EN 46400 AISi 91)
Horn weight: 9,5kg each one

ENVIRONMENT
Operating Temperature: -25 ÷ + 55 °C
IP Degree: IP66

MARKING
Europe CE

Tech DISPLAY