

## Emergency Communications System

The aim of the Emergency Communication System (ECS) is to provide road traffic participants with two-way emergency communication with the system operator on duty at the Traffic Management Centre (TMC)

### Technology:

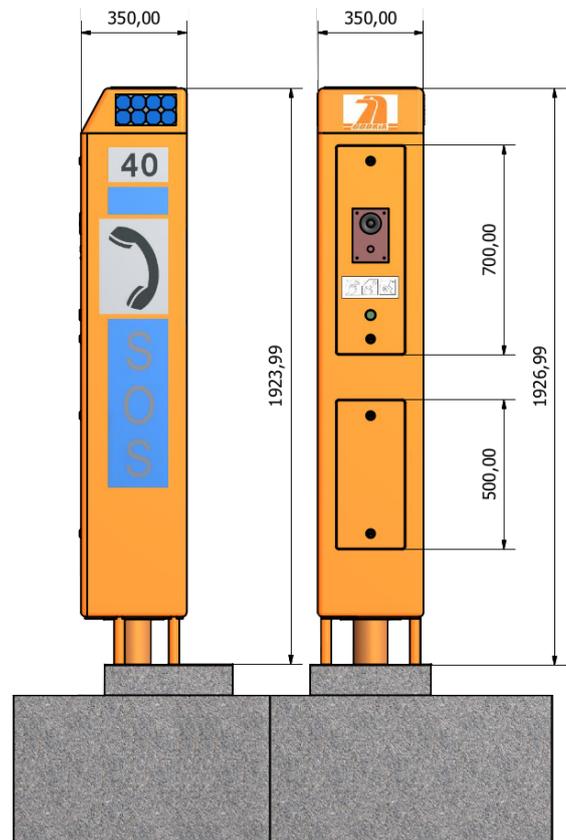
- A voice communication system is based on IP devices with direct connection to the Internet.

### How the system works:

- The idea is that the emergency system makes it possible to call for help from every intercom station. This requires the system where no call for help is lost. A dispatcher looking at a queue of calls for help (sorted by the call arrival time and priority) may establish voice communication with a chosen station. As the dispatcher can see on the client visualisation where the call was sent from, he may also divert it. A keyboard of the dispatch console provides also information about a failure of the station; then a red LED light continuously and duplicates the functionality of client visualisation. To call for help from K-SOS Call Box it is enough to press a button with a pictograph located on the front of the box.

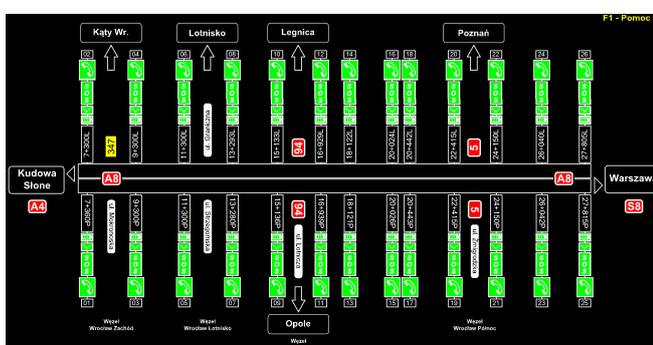
### System monitoring:

- The AlphaCom XE intercom system by STENTOFON has the implemented line monitoring system, tone resting system as well as the function of additional data acquisition and sending. This function was used to build a door opening control system in the call box and a control system for the battery charger also implemented in the call box.



### Visualisation - OPC Server:

- The AlphaCom XE intercom system has the implemented OPC open protocol. It sends information about all stations in the system and their current status to the visualisation server. The visualisation server transfers the data to the visualisation client which is a computer with a dedicated monitor.



### Communication with a telephone system:

- The AlphaCom XE intercom system is equipped with relevant interfaces for communication with external systems. SIP Trunk interfaces are provided for communication between the intercom system and a telephone system. The line is connected to a telephone exchange existing in the facility. This enables communication between any intercom station and any telephone subscriber. The intercom system may divert a call from any intercom station to an external line.

### Recording of calls:

- The AlphaCom XE intercom system has an optional call recording system. Every incoming and outgoing call to and from a registered subscriber may be recorded.

**Designed, manufactured and installed by BlueSoft STC Sp. z o.o.**