

For private
business and industry

sectyelectronics

secty lifePatron®

Advanced earthquake warning and security system



PROJECT Moldava - Advarna



Project description

sectyelectronics@GmbH is on the field of advanced earthquake early warning worldwide the only supplier of such systems which are suitable for industrial use as well as for and private use. The system is low-maintenance and easily operated for everyone.

The advanced earthquake early warning system was developed in close cooperation with the GeoForschungsZentrum (GFZ) Potsdam. It was tested scientifically successfully and could prove its functional capability in practice meanwhile in 24 earthquake-threatened countries.

The principle of advanced earthquake early warning is based on the P-wave detection and P-wave analysis. The P-wave of an earthquake is safe and hurries ahead of the destructive S-wave. With the help of the detection and analysis of the P-wave of an earthquake the intensity of the oncoming earthquake (S-wave) can be estimated enough exactly and certainly. With excess of preset thresholds the system releases an earthquake alarm.

In this project two earthquake detectors (1 master and 1 submaster) came into operation together with a siren cabinet and an "outdoor" siren (warning within a radius of 2.5 km)

In the space of time from April 15 to April 19, 2013 **secty**electronics@GmbH has realized a further project in Moldava.

The city "Avdarma" located 120 km south from the capital, "Chisinau" and has about 3,000 residents. The system is to alert the population within a radius of 2.5 km.



The school situated in the centre of the town was selected as an installation place.



Both earthquake detectors „Master“ and „Submaster“ were installed on the lowest floor “cellar” in protective cases at concrete pillars .





The siren cabinet was installed in a separate room.





The siren mast was installed on the attic and was led through the roof.



The siren mast was fastened with clamps on a wall.



Back side of the clamps



The roof was roofed again after the installation.



After the installation the responsible people and also the teachers were cleared up in a training about earthquakes and were introduced in the functionality of the system.



After this training, in addition, the responsible people were still made familiar with the handling of the system. Furthermore the population was informed about the loudspeaker system about the realization of several test alarms.



After the test alarms it turned out that the sirens were still to be heard in a town 9 km far away.

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