Digital Wireless Information System DBOR-D general informations

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DBOR-D system advantages

- Additional data services with interconnection to other information systems.

- Possibility to broadcast to any single receiver, custom group of receivers or to all receivers in transmitter range.

- Outdoor receiver with PA speakers and indoor multimedia receivers with FM tuner and MP3 USB player which also shows broadcasted message in text.

- Jamming from adjacent transmitters with same system is eliminated by use of digital coding and new frequencies for this system.

- Audio output without noise and crackling.

- Maximum clarity and transmission of voice and music.

- Costs are comparable with old analog systems.

- Possibility for European Union grants.

- Easy expansion with peripheral modules.

- Easy usage with minimal learning time for personal.

- Scheduling and creating of automated messages, voice warnings and alarms.

- Hot backup for critical systems in emergency or army environment.

DBOR-D system description

DBOD-D system is based on successful predecessor BOR which was developed by our company and got Golden Urbis award. DBOR-D is based on modern technologies and as only one on market is using layered digital modulation for robust information transmission in all types of environment. This modulation allows more immunity to distortions and signal fading. Thanks to digital processing is removed any noise from transmission path and maximum information clarity is reached.

System is designed with regards to customers requirements from all areas which was given by long time research. Because of this is system applicable to all applications in common areas, buildings and objects including cities and city parts, universities, education facilities, commercial and industrial complexes, military buildings and bases.

Sophisticated system with backup and solar power options is fully independent which allows to broadcast and receive information during emergency situations like earthquakes, blackouts, general danger, industrial crashes and other disasters.

DBOD-D system works as standalone system with power core which connects other peripheral modules according to customer needs. These modules allows to automatically react to defined events like fire detection, intrusion detection, biologic or chemical danger, etc.

DBOR-D system parts description

DBOR-D system is constructed as high performance core to which are connected individual input and output peripheral modules. This allows many possible configurations of whole system and easy expansion in future to meet any customer requirements.

Thanks to sophisticated address system is possible to broadcast text or audio information to each receiver separately or to all at one time. Also there is possible to create groups of receivers for better management with capability of 128 groups with 65000 receivers in every group. This allows to broadcast message directly to fire department without touching common city receivers on to contact only city are which is impacted by situation.

As standard input modules are for example BMIS signaling, SMS gateway, GSM/3G input, measurement sensors for water level, gas, ...

After input data are processed audio or text information is automatically broadcasted to specified receivers according to user defined configurations. In this way is possible to easily create automatic flood warning system, fire alarm system or similar critical warning system. Standard receivers or output modules are indoor receiver, outdoor receiver, wireless siren, wireless signal light and wireless text panels.

Indoor receiver

Wireless indoor receiver is designed as portable multimedia player which allows to play audio formats like MP3, AAC, WAV, OGG a FLAC from SD card in card reader or any USB memory device. Receiver is also able to receive FM and AM analog radio.

Receiver is turned on from standby mode or automatically switched to required mode if its other functions are used when DBOR-D broadcast is started to allow forced message distribution to everyone. Receiver have integrated recorder for last audio which allow to citizens to hear informations from city when they come back from work in case of general informations. Receiver is able to also show text messages from broadcaster which is on display until next broadcasting and is usable for people with hearing problems

Receiver have standard line power with battery option.

Outdoor receiver

For information distribution in outside areas or halls and buildings was developed new generation of outdoor receivers which allows connection of up to 4 PA speakers with possibility to connect light signaling and similar peripherals. Outdoor receiver is battery powered and charger from common light system during night. In areas without common light system or in places where is required operation without power for long time is possible to use solar panel.

Information LED panels

DBOR-D system allows also text information in form of LED panels. With this function is possible to inform people on common places or in facilities about everyday activities, production schedule, important informations or emergency instructions.

With easy usage and reliable wireless transfer is for example possible to change information board to evacuation procedure board when fire alarm occur. All this is fully automated with specified audio message according to user configuration.
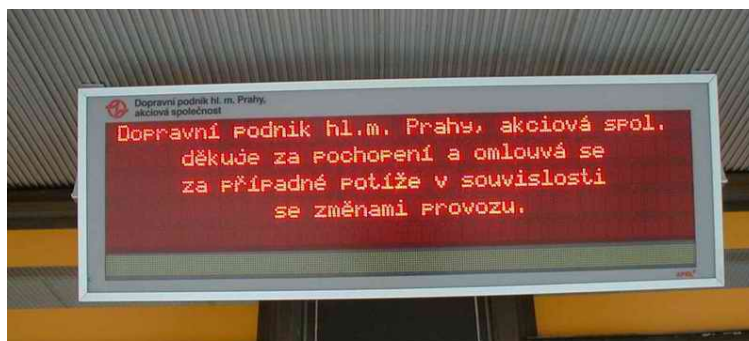
System user interface

System was designed with regards to easy and flexible user interface. Broadcasting system is server based solution which allows DBOR-D system usage from any mobile or desktop device with web browser. Thanks to this system model is not necessary to have any special broadcasting console or specified design which is in case of any critical disaster often unavailable and any broadcast can be triggered from any smart phone of computer with Internet connection by privileged person.

Optional peripherals

Except standard output modules is possible to connect wide range of optional peripherals to system like sirens, light signaling, etc. These peripherals are controlled as part of system and can make supplementary functions.