

HETMAN

dispatch-alarm-broadcast system



Sending of alarm signals

Sending of warning messages

Setting any telephone to tap mode

Setting up a call via backup line

Additional features facilitating the dispatch calls support

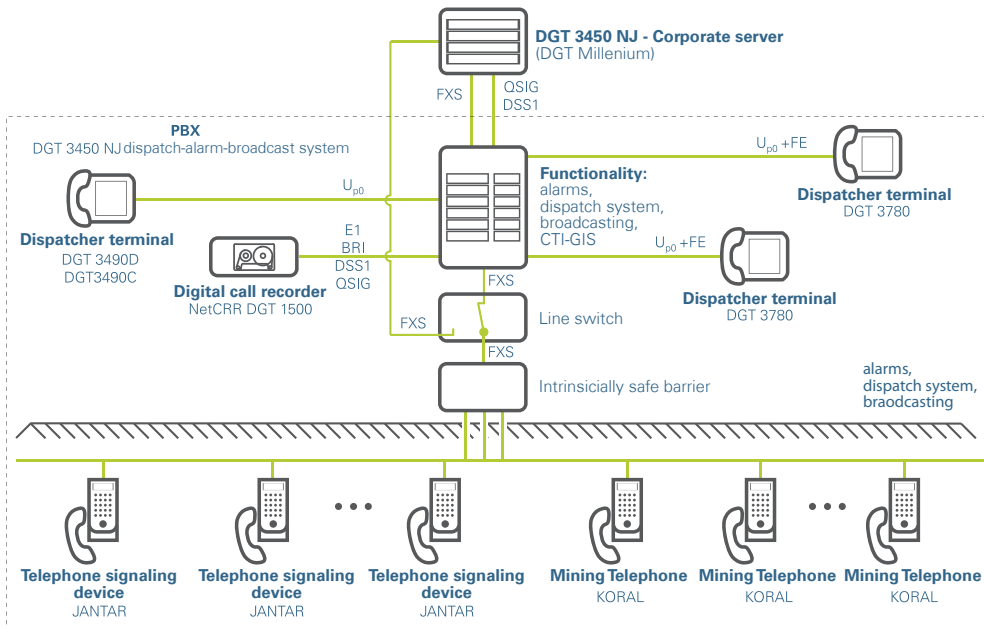
Event recording

The HETMAN system is a modern dispatch-alarm-broadcast system used in mining companies and others having similar technical and operation requirements. The system may be used in industrial plants and mines, where the explosion danger factor is high or there are other hazards involved, which force the use special communications solutions.

The system includes:

- DGT 3450NJ dispatch-alarm server,
- DGT 3780 dispatch console with an LCD touch-screen,
- Event and communication recording system based on the DGT 5810 NetCRR recorders,
- Intrinsically safe barrier,
- JANTAR telephone signaling devices,
- KORAL mining phones.

The telephone signaling devices and mining phones meet the requirements of operation in extreme environmental conditions and areas where the danger of explosion is high.



The Hetman system supports a wide range of alarm features. Warning and information messages concerning various types of dangers may be sent to particular users, user groups or to all sets.

The system supports real-time identification of the sets' status during their operation, identification of the calling party along with the call type (alarm/normal). The cooperation with the GIS system enables the set (or sets) visualization on a digital map.

A dispatch console operator has access to a standard functionality enriched with the following alarm and maintenance features:

- Sending alarm signals to a selected group (defined / all) of telephones operating underground,
- Sending warning and information messages concerning different types of dangers to selected users, groups or to all sets (directly via dispatch console operator or messages prepared earlier),
- Setting any telephone to tap mode,
- Setting up a call with a mining phone or a telephone signaling device via backup line,
- Additional features facilitating the dispatch calls support (intercepting the call to a different dispatch console operator, emergency call breakthrough, etc.).

The dispatch communication features are supported by the modern dispatch terminals with LCD touch-screens. Thus, it supports a custom status presentation and access to many lines (up to 1000 lines) in a user-friendly way (tabs, groups, etc.). Compared with a traditional dispatch console, the line status signaling has been expanded to indicate the

following:

- Lines called by a dispatch console operator in the alarm mode,
- Alarm call to the dispatch console operator,
- Alarm communication with the dispatch console operator,
- Alarm communication with a different dispatch console operator,
- Broadcasting,
- Tap.

Moreover, the calls are queued according to their type: alarm and normal, and are displayed in a list which allows the selection of any subscriber. A telephone set (or sets) can be visualized on a digital map if the system is interfaced with the GIS system. Apart from the alarm-broadcast features listed above, a dispatch console operator may set any telephone to tap mode, or set up a call with a mining phone or telephone signaling device via backup line.

All statistical-traffic events and communication may be recorded using the DGT NetCRR recorders. All recorded data is secured against the unauthorized access.

The Hetman system may be integrated with any office switch using standard telecommunication interfaces, especially with the signaling: QSIG, DSS1, etc. The system integration supports calls from mining phones to other office switch's subscribers, however the calls set up by the Hetman system dispatch console operator have the highest priority.

Moreover, the integration with the office switch enables moving the underground telephones' support from the DGT 3450NJ dispatch-alarm server to a PBX office switch, when necessary.

The system features

