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LONGWALL CONTROL CENTER

FOR VISUALIZING THE CONTROL DATA

LONGWALL CONTROL CENTER (iLCC)

BY TIEFENBACH CONTROL SYSTEMS...

APPLICATION

- In order to meet the increasing requirements of support control systems and additionally provide a communication level to the surface and/or external systems the Longwall Control Center can be used optionally at one or both intersections of face and entry.
- This is the latest development stage of a central control unit which is a combination of visualization computer and a communication unit – iGM /ZSG2.

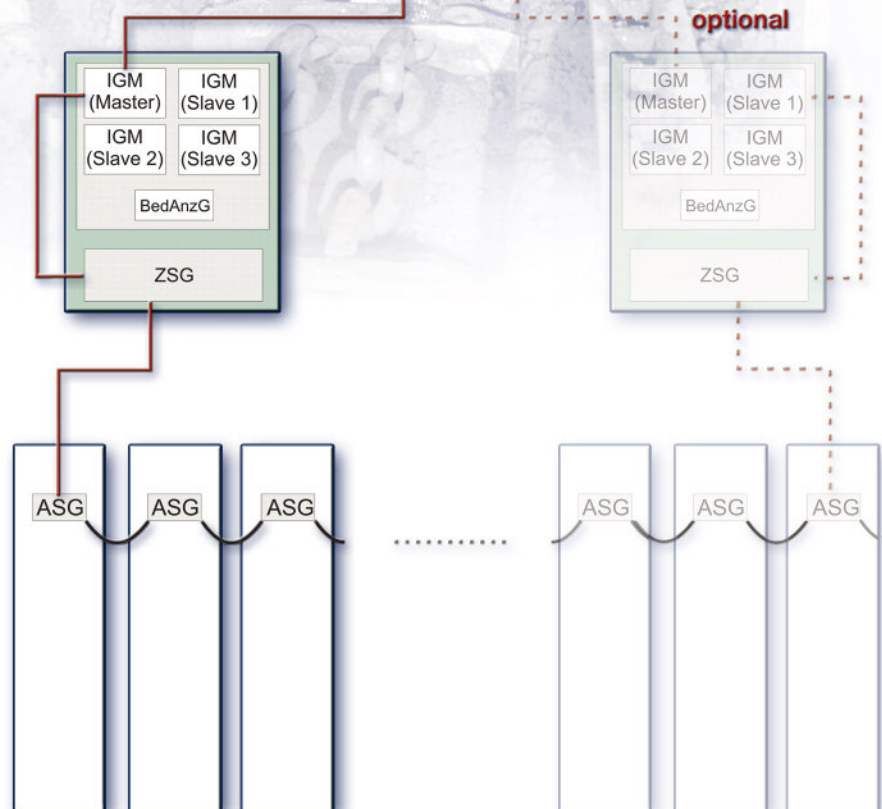
FUNCTION AND DESIGN

- An iGM (intrinsically safe Graphic Module) consists of a computer module and a graphics display connected to it. If it is combined with an operating and display unit (BedAnzG) it permits a compact graphical representation and operation of shield control units underground.
- By installation into an intrinsically safe enclosure which it shares with a central unit (ZSG) it can be used on the longwall face direct. The device communicates via an Ethernet interface with the server of a visualization unit at the surface and via a serial interface with the central unit (ZSG) and the respective shield control units (ASG5) connected to the latter.
- The great complexity of the system permits an independent operation underground, at the same time

SURFACE

Support control visualization
Server

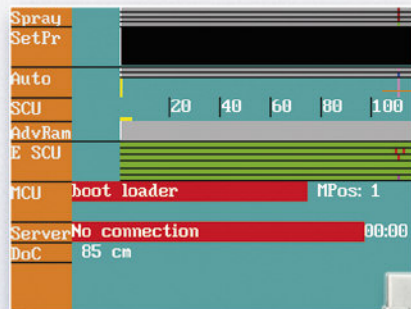
UNDERGROUND



providing the ease of use of a graphical user interface nonetheless.

The variant with four iGMs includes the graphical display option with four screens.

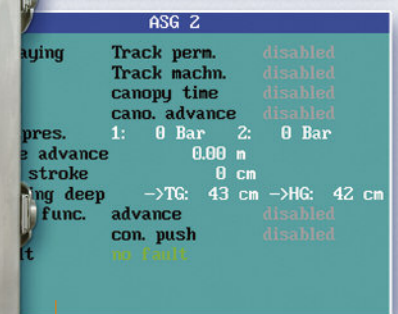
For the user this offers the advantage of having an overview over the installation and being able to operate it at the same time.



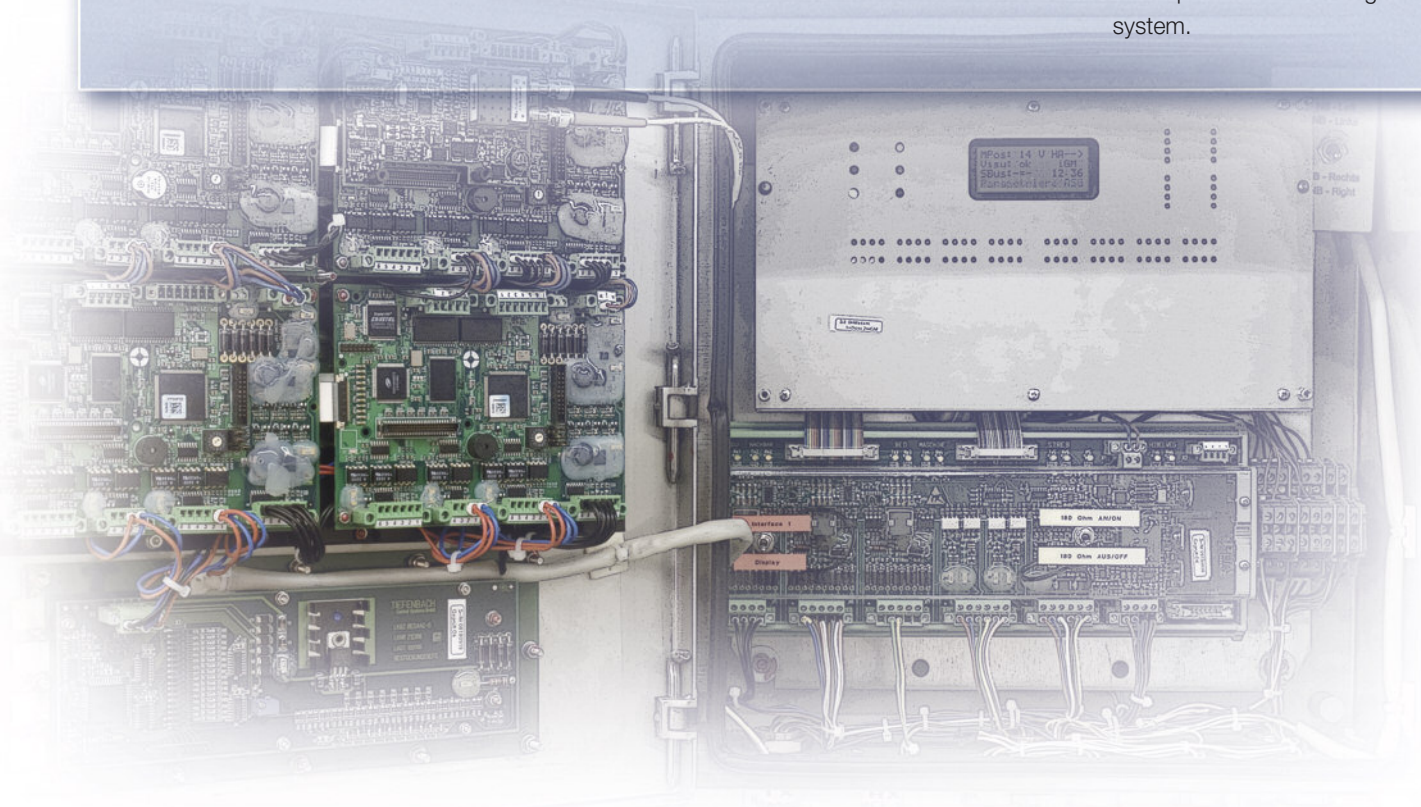
The two iGM display screens at the top left and right give an overview over the complete face.



The display at the bottom left shows the menus and the setting windows which are used to define and control the functions of the installation.



The bottom right display is reserved for the detailed presentation of individual system components such as the central unit or the shield control units, and the status of the pressure monitoring system.





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