

CONNECT Technology









HADES is an integrated communication system for large construction sites or large plants. For the entire construction site, it provides an autonomous, consistent, and integrated infrastructure.

High Adaptability Data and Emergency System HADES

HADES is designed to be used in harsh environment and is adapted to meet the requirements in micro or large tunnel construction, mining, civil engineering, road construction, bridge construction as well as on large premises, e.g. fair grounds and other security sensitive facilities.

Management, monitoring, diagnostics, and evaluation of the modules is done using the HADES software. The construction site network data is backed up using the backup service. Remote Desktop Virtual Private Network provides easy, secure, and flexible remote access to defined segments of the construction site network. Thus employees and service technicians have access to construction site network services and data from anywhere in the world.

As an all-in-one system incorporating modules for

-  telephony above or below ground
-  video control
-  access control
-  people and vehicle tracking
-  emergency alerts
-  fire brigade response plans
-  sensorics
-  office communication



HADES Messenger for tracking and emergency communication

HADES may be scaled to match each conceivable scenario and adapted to the various conditions occurring during different construction phases.



High Adaptability Data and Emergency System HADES

The HADES modules are not to be considered as a self-contained product range, but may be enhanced as per customer specifications. For this reason, various hardware components are available that may be combined according to the requirements.

The central communication unit (master unit) is installed in the construction site office. From here, pre-assembled fibreglass lines are used to provide the services for the different areas of the construction site. Hades units (data boxes) are available as nodes in the network and are used as interfaces to the HADES hardware components. Based on this infrastructure, the modules may be combined and set up as desired.

Advantages

- Integrated communication system
- Consistent radio coverage above or below ground
- The tunnel infrastructure can be covered using one single industrial-grade fibreglass
- Uninterrupted operation in case of mains failure
- Interfaces for public telephone network, mobile network, and web
- Plug&Play setup using pre-assembled fibre-optic patch cables and industrial standard plug-in connection
- Modular design for flexibility and cost efficiency

Features

- All services are provided using one single infrastructure
- Powerful 1 Gbit TCP/IP-based network
- All modules and components are designed to be used in harsh environment according to IP 65
- All-in-one system incorporating modules for telephony above or below ground, video control, access control, people and vehicle tracking, emergency alerts, fire brigade response plans, sensorics, and office communication
- Connections are made using TCP/IP-based devices or applications.



HADES Master Unit