

Doppelmayr Connect: The smart way to control a ropeway





Doppelmayr Connect The brain of modern ropeway technology



Digitalization and increasing data connectivity have long become a reality in the world of ropeways. With the SMART Ropeway philosophy, Doppelmayr focuses its innovation capability to enable visionary concepts for shaping rope-propelled mobility. A key element in this strategy is the ropeway control system Doppelmayr Connect.

With cutting-edge ropeway technology, Doppelmayr is laying the foundation for the continuous evolution of transport systems. Decades of experience gained

from countless projects worldwide fed into the development of Doppelmayr Connect. The focus is always on optimally addressing customer needs.

The result: The intuitive user interface and top-grade industrial electronics play a major role in helping operators to maintain an overview and ensure efficient operations on a day-to-day basis.

Doppelmayr Connect focuses on user friendliness



The control system places a clear emphasis on the needs and tasks of the user. From the central control desk, users have a full overview of the ropeway installation and – with additional monitors – can simultaneously keep an eye on passengers. The premium touchscreen is ergonomically angled and made of top-grade materials.

All operator control units, whether on the platform, at the control desk or on the control cabinets, follow the same operating logic. They have been tried and tested for outdoor use in snow, ice, rain and heat, and are resistant to UV radiation.

Benefits

- Operating elements used on a daily basis are in one place
- Control unit and passengers always in view from control room
- Recessed operating elements for optimal user comfort



Enhanced quality in the workplace

The user interface was developed in close collaboration with ergonomics experts. Its layout is uncluttered and reduced to the essential. Irrespective of user navigation in more detailed displays, key data, such as rope speed, wind values, any currently active alerts and related information, always remains in view on the first level.

Doppelmayr Connect is aimed at improving the quality of the workplace for the user. For this reason, the space occupied by control cabinets was reduced, disturbing fan noise eliminated, and exhaust heat minimized through the use of energy-efficient components.

Benefits

- Optimal overview thanks to anti-glare screen with wide viewing angle and high contrast
- Ergonomically adjustable to suit individual user
- Made from high-quality, durable materials
- Space-saving and uncluttered

Tablet

A modern tablet is available as an option to make daily operations as well as maintenance and repair work much easier. A mobile application, which is connected to the control system via the internal wireless network and operated with the tablet, provides enhanced convenience for ropeway personnel.

Benefits

- Full visualization of the entire station accessible from the mobile device
- Greater convenience for maintenance and repair work
- Safeguarded against unauthorized access

Radio remote controls

The radio remote control options give personnel additional freedom of movement to take optimal care of passengers. There are three remote control versions available. Units can either be worn with a strap or secured in a permanent location by means of a wall bracket.

Station

- Fixed speed stages of the ropeway installation
- Carrier identification (next and next but one station)
- Loading gate control (manual or automatic closing)
- Elevating platform control (first or second stage)
- Stop
- Emergency stop

Parking system

- Fixed speed stages of the ropeway installation
- Select rail (all rails for launching and parking carriers)
- Swing rails in and out
- Wake up
- Start carrier launch
- Stop for parking system
- Emergency stop for parking system

Line

- Select travel direction forward / backward
- Reset
- Start
- Speed control (increase / decrease)
- Stop EB



Doppelmayr Connect provides smart assistance

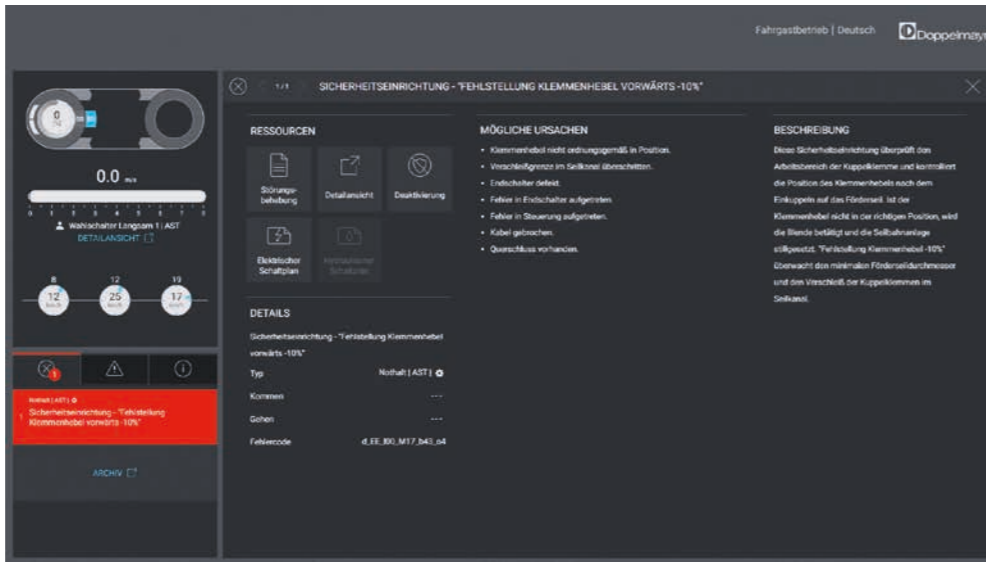
Notification Center

Shutdowns, alerts and information are shown in the Notification Center on the touchscreen to give a rapid overview of active reports.



Solution Center

In the event of a report, an exact description, possible causes and quick links to documents, such as troubleshooting manual or circuit diagrams, are provided in the Solution Center.



Documentation

Further information such as operation and maintenance manuals is stored in the system and can be accessed directly by the operator.

Benefits

- Manuals integrated in local language
- Electrical diagrams in local language including jump marks available in PDF format
- Hydraulic diagrams available in PDF format



Electronic carrier identification with RFID

All carriers can be electronically tagged with the aid of optional RFID (Radio Frequency Identification) technology. For numerous functions, such as carrier identification, spring force measurement or current measurement for the seat heating, this means that values can be uniquely assigned to the individual carriers.



Doppelmayr Connect is secure

Secure remote maintenance system

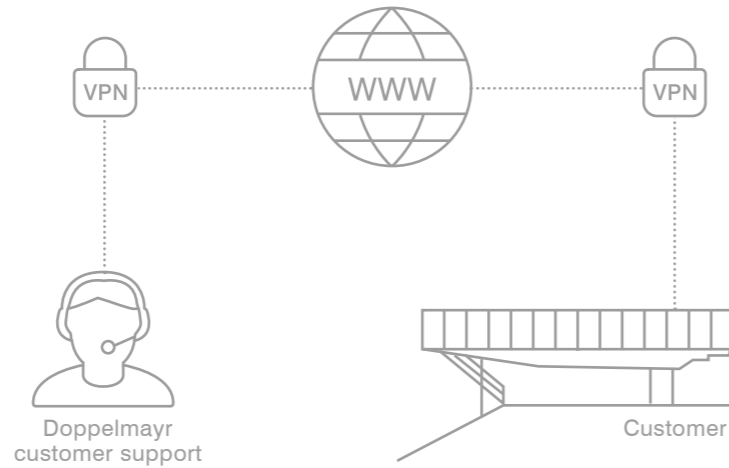
We provide you with fast, straightforward assistance. Your installation is safeguarded against unauthorized access at all times.

IT security

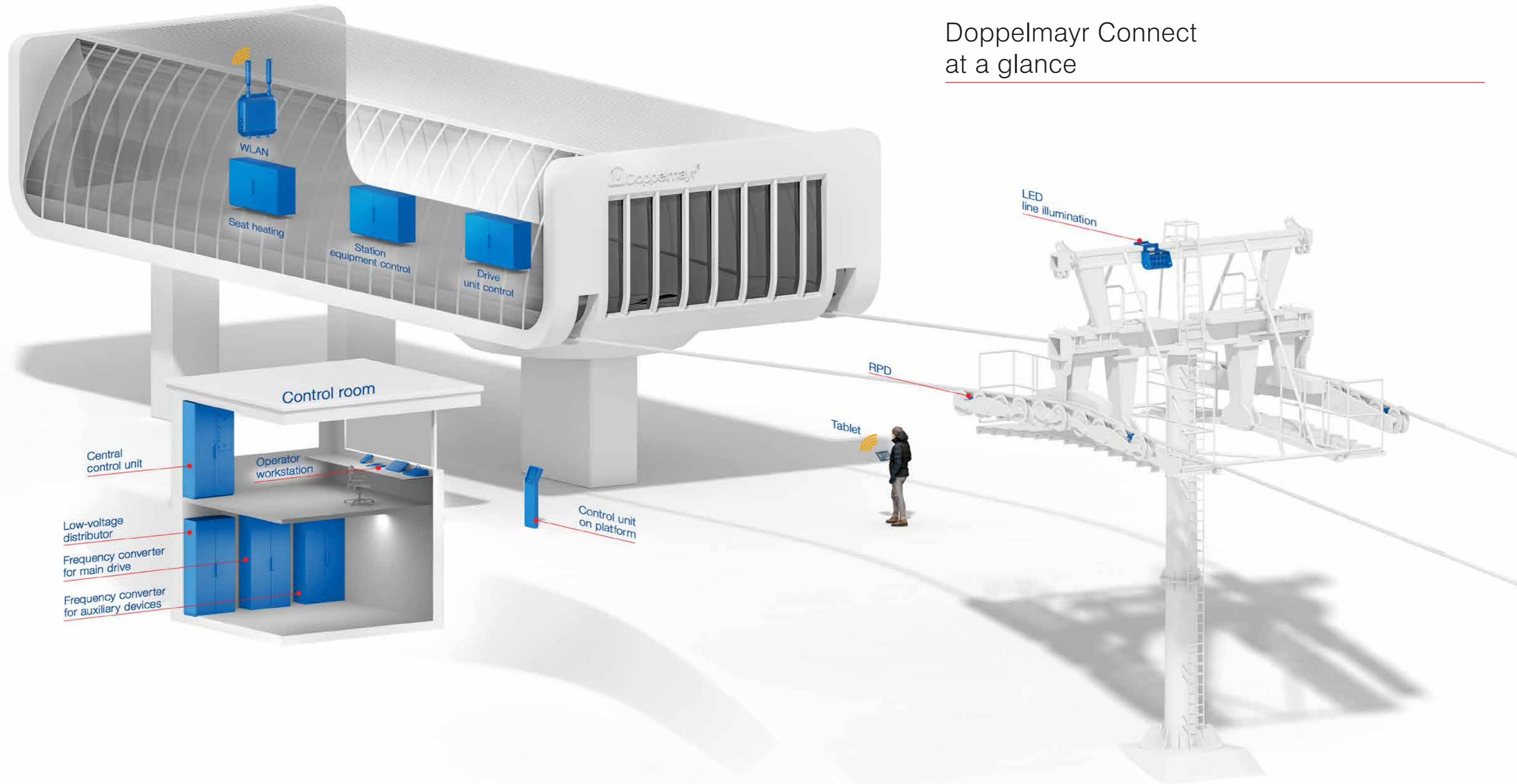
Doppelmayr Connect satisfies the highest standards with regard to protection against external unauthorized access.

Deactivation concept

Following the failure of a safety device, it can be of benefit, in specific situations, to continue operations using the main drive, rather than evacuating the line using the emergency drive. In this case, the respective safety function can be deactivated while adhering to clearly defined alternative measures. Step-by-step guidance is provided throughout the entire deactivation process.



Doppelmayr Connect at a glance



LED line illumination

The LED line illumination is designed for the energy-efficient lighting of rope spans during night trips. Special consideration was given to nature conservation in its development.

Doppelmayr Connect links and integrates



Information and communications technology (ICT) integrates cabin functions into the Doppelmayr Connect control system. This includes both the operation and visualization of standard ICT functions – for greater efficiency in day-to-day operations. The ropeway operator has straightforward, central control of cabin functions, such as lighting, ventilation and air-conditioning as well as the PA and intercom system, via the ropeway control system. A host of additional functions and

a comprehensive infotainment offer are available in the cabin. Passengers can access the internet or tourist information such as weather reports at any time.

Doppelmayr Connect The benefits at a glance

Functional

- Intuitive und logical navigation: flat menu hierarchy with 2 levels
- Notification Center: error reports, alerts and information are always within the operator's field of view
- Solution Center: innovative assistance for rapid fault elimination in day-to-day operations
- Integrated operation and maintenance manuals and circuit diagrams
- Data recording possible for statistical evaluation (trend analysis, operating statuses on the ropeway, etc.)
- Prerecorded passenger announcements
- RFID carrier identification in the station for data collection purposes
- Remote maintenance system with IT security to protect against external unauthorized access
- Line illumination with energy-efficient LED technology
- Deactivation concept to enable continued operations using the main drive at predefined activation levels – through to recovery – in the event of a shutdown triggered by monitoring device failure.

Practical and rugged

- Operating elements used on a daily basis within easy reach
- Mobile application with tablet via dedicated wireless network: freedom of movement facilitates maintenance and repair work
- Touchscreen with Full HD resolution, high-quality finish in glass and brushed aluminum
- Use of cutting-edge sensor and actuator technologies
- Space-optimized installation of control cabinets to free up room in the control room
- Decentralized layout of control cabinets to reduce heat and noise emissions in the control room
- All outdoor control units are of rugged construction and in weather-proof design with weather protection covers
- Use of top-grade industrial electronics with extended temperature range
- Radio remote controls for station, parking system and line significantly enhance operator comfort





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