ROPERA®: Digital Solutions for Efficient Ropeway Operations

Connected, automated, maintenance-friendly

ROPERA® combines proven components with advanced technical solutions in a modular system. Improved accessibility, optimized processes, and a high degree of automation reduce maintenance requirements and help ensure high system availability. Digitalization and automation are applied at several levels: LeitControl 2.0 brings operations, analysis, and diagnostics together, the digital manual makes technical information easier to access, and additional automation functions simplify recurring tasks in day-to-day operations.

LeitControl 2.0: Operations, analysis, and diagnostics on a single platform

With LeitControl 2.0, LEITNER continues to advance visualization for ropeway operations. Function-oriented controls, location-independent access, remote diagnostics, and remote maintenance support operations managers and service technicians in their daily work. New features include an integrated reporting tool, a real-time view of the carriers, and full integration of LeitPilot.

The reporting tool records, visualizes, and analyzes operational data. This data can be linked to external information such as temperature, wind, weather, or snow conditions. Configurable dashboards with predefined widgets display relevant key performance indicators. Daily, monthly, and annual analyses as well as test logs can be accessed directly in the visualization. Experienced users can create their own analyses. The integrated operating calendar allows data to be filtered for specific purposes, for example to exclude daily morning test runs from the analysis of regular passenger operations.

The real-time line view shows the position of every carrier on the line. Available information includes the most recently measured grip force, carrier spacing, and the current number of passengers. Multimedia content can also be integrated. This makes anomalies visible earlier, allowing them to be investigated in a targeted manner.

All LeitPilot functions, the technology for autonomous station operation, are fully integrated into LeitControl 2.0. Operators can therefore control, monitor, and analyze the installation through a single interface. The LeitControl 2.0 web client is available at the workstation and on tablets and smartphones. This means the system status remains accessible when on the move or during remote diagnostics.

LeitControl 2.0 also meets stringent IT and internet security requirements and is aligned with the provisions of the Cyber Resilience Act (CRA). In addition, LEITNER is developing an AI supported data analysis function. In the future, it will be available directly in LeitControl 2.0 and help users identify correlations in operational data more quickly.

Digital manual: Targeted access to technical knowledge

The browser-based digital manual provides access to technical information, maintenance instructions, and documentation. Component-based navigation takes users directly to relevant content and supports maintenance work. Providing the information digitally also creates the basis for keeping technical documentation structured, traceable, and up to date throughout the life cycle of an installation. The digital manual is supplemented by an AI-supported chatbot that makes manual content even easier to access. This function is being developed incrementally for ROPERA® installations. The digital manual is already in use at the first ROPERA® installation, the six seater “Bernhard Glück” chairlift at the Speikboden ski area in South Tyrol’s Ahrntal valley.

Automation functions simplify day-to-day operations

Additional automation functions handle recurring tasks and reduce the need for manual checks. Carrier garaging at the touch of a button simplifies standardized processes. Automated tire-pressure measurement supports reliable component monitoring. The Intelligent Heat Detector (IHD) controls seat heating based on actual demand, helping to reduce energy consumption.

LEITNER, POMA, and BARTHOLET are setting a new standard for monocable ropeways with ROPERA®. The focus is on powerful, quiet operation, efficient and sustainable design, workplace safety and ease of maintenance, as well as optimized life-cycle costs.

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