



Locomotive Modernization Experts



ROVER™

Portable locomotive remote control with accurate, slow speed control



Contact Us Today

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About ROVER™

ROVER is the first fully portable and fully functional RCL system on the market. Developed for Class 1 Railroads by two industry leaders, the system is designed to provide functionality while remaining portable. This allows the system to be moved to different locomotives, based on operational demands. ROVER offers full flexibility and maximizes your investment. ROVER is a collaboration between ZTR Control Systems and Hetronic.



Product Highlights

- Portable and system installs in under 30 minutes
- Transfers easily between different locomotives
- Can be hard wired to locomotive if required
- Accurate speed control
- Extremely rugged
- Diagnostic display
- Cost effective design
- Impact recording device

The radio remote control product has been proven globally on over 300,000 applications, across multiple industries. The locomotive product was introduced in 2009.

Ergonomics

Guard against repetitive motion injuries with ROVER. Designed for natural hand position, the lightweight ROVER transmitter allows operators easy access to control elements. Other features include multiple strap and harness options including 4-points, belt and shoulder style, and for safety, an automatic emergency stop if the transmitter is not upright.

Safety

ROVER has been engineered with a strict emphasis on safety, has been designed following AAR directives and is FRA compliant. System operation is always conducted in a 'safe-mode' and ROVER incorporates many safety features including operator alerts, audio-visual warnings, emergency air-brake application and multiple emergency stops. ROVER utilizes leading-edge communication technology to notify railroad personnel of any serious conditions during operation.

Hardware Features and Options

TRANSMITTER

- Direction control
- Speed control
- Horn control
- Bell control
- Sand control
- Emergency switch
- Tilt detection
- Wheel slip indication
- Independent brake application and release control
- Actuating pipe or bail function
- 2nd transmitter operator control unit (OCU)
- Breakaway harness
- 60 second vigilance
- Bidirectional headlight control
- Audio indication of RCL movement
- Two actions required for RCL movement
- Train brake application and release control
- Protection from multiple OCU control

BASE LOCOMOTIVE PANEL

- Electro-pneumatic control signals
 - IND brake
 - Train brake
 - Bell
 - Horn
 - Antenna mast
 - Impact recording device
- Locomotive mounted E-stops
- Wheel bearing speed sensors
- GF field control or excitation control
- Strobe lights
- LCD display with diagnostics
- Remote monitoring

Software Features

- Main pressure feedback (over 90 psi)
- Proportional IND and train brake output (accuracy 1 psi)
- Reverser faults
- Automatic sand
- Speed control
- Speed limiting
- Man down notification
- Custom brake set point control
- Automatic bell control with motion
- Rollback protection
- Yard speed control
- Pitch and catch control for 2nd transmitter
- Hump speed control (excitation)
- Dirty filter monitoring
- Diagnostic logs
- Brake pressure indication
 - PSI
 - Fully applied
 - Fully released
- Output feedback protection
 - Failed relay detection
 - Unintended operation detection

* Additional hardware, software and configuration options are available.

Demonstration Photos



ROVER™ installed on a SD-40. MU cable and air lines hooked up. Approximately 30 minutes to install.



Wheel/speed sensor installation. Provides exceptional feedback. *(2 installed for safety)*



Locomotive mounted emergency stops located on both sides.



Easy installation, all-weather enclosure mounts clear of walkways.



Ergonomic OCU units. Two assigned per locomotive for pitch and catch operations.



OCU sample configuration of controls.

Find out how the portability, flexibility and proven reliability of ROVER can improve your switcher operations.

Contact us today for more information:
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