

# SKF Microlog CMXA75 kit for Railway

A portable, handheld analysis tool that puts the benefits of condition monitoring within reach – under the train, and in the workshop

Starting a condition monitoring program can be a time-consuming process requiring a big investment in vibration analysis hardware, software and training. Or it could be as simple as picking up the SKF Microlog kit for Railway.

Developed specifically for railway requirements, the kit features the compact SKF Microlog GX Series data collector/analyzer and SKF @ptitude Observer software. It also includes an accelerometer and accessories to get your maintenance team up and running quickly.

Quick and easy to configure, the SKF Microlog kit for Railway can be used to check repairs in the workshop, or to perform condition monitoring of train bogie systems in operation. The kit puts sophisticated SKF bearing analysis and troubleshooting expertise at the fingertips of users who are not vibration specialists, eliminating training costs and the need to hire more experienced personnel.

## Monitor bogie systems during train operation

The SKF Microlog kit for Railway enables collection and interpretation of condition monitoring data from traction motors, gearboxes and axleboxes during train operation, contributing to reduced maintenance costs, downtime and standstills.

*SKF Microlog kit for Railway includes a Microlog GX Series analyzer, SKF @ptitude Observer software, an accelerometer sensor and required cables, all in a rugged carrying case.*

Portable accelerometers positioned on the bogie subsystems capture operating data, which the SKF Microlog unit processes to monitor or investigate machine symptoms. Unlike bigger, bulkier analyzers, the smaller, more ergonomic SKF Microlog is easy to move around train cars and bogies, facilitating faster, safer walkarounds and a more efficient maintenance strategy.

## Check bearings or repairs in the shop

The kit also allows traction motor repair shops to test motor bearings for general issues during scheduled re-profiling of the wheel. Such in-shop testing supports a more cost-effective utilization of re-profiling/traction motor downtime, and helps promote a more consistent, repeatable quality control process.



## Benefits

- Helps to reduce maintenance costs
- Increases safety and reliability
- Improves maintenance and planning
- Reduces unplanned downtime and standstills
- Extends overhaul intervals
- Improves workshop quality procedures
- Compact, ergonomic and easy to use

## Applications

Portable data collection and analysis for:

- Axleboxes
- Gearboxes
- Traction motors





### SKF Microlog Analyzer GX series

At the heart of the SKF Microlog kit for Railway is the SKF Microlog Analyzer GX – a high performance, one- to four-channel, route-based portable data collector/FFT analyzer with a rugged, industrial design.

The SKF Microlog GX series features a robust, high-speed data processor and optimum data storage capacity, allowing the collection of route and non-route dynamic and static measurements from many sources.

### SKF @ptitude Observer

SKF @ptitude Observer is part of a family of reliability software applications that work together as SKF @ptitude Monitoring Suite, a platform that links operations and maintenance and is highly suitable for railway applications.

SKF @ptitude Observer's easy-to-use operator interface and intelligent diagnostics functions make it easy for new users to set alarm parameters. Triggered alarms are represented by traffic light-status indicators on the SKF Microlog Analyzer GX unit.

### Technical features

- Rugged design
  - Two meter multiple drop
  - IP 65 rated
- Multi-language support
- 15 language options
- Intuitive graphical user interface
- Long-life battery for up to eight hours of operation
- Bright 1/4 VGA color display for enhanced visibility
- Marvell 806 MHz PXA320 processor for exceptionally fast operation
- Outstanding data storage capacity with 128 MB flash memory for internal storage and Secure Digital (SD) memory expansion slot
- Choose between instruments that have single channel input, or four channels plus simultaneous triaxial input
- Multi-plane balancing application
- Field-upgradeable from an entry-level instrument to an advanced analyzer
- Wide range of accessories to expand functionality even further

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