

MIREL RM2 Product Sheet

# Integrated On-Board System MIREL RM2



# MIREL RM2

The **MIREL RM2** integrated on-board system is a system through which the interaction between the track vehicle and the driver takes place. **It plays a key role for reliable and safe railway travel. It is designed as an open system, which ensures wide scalability.** The range of system functions thus depends on its modification and configuration.

**The MIREL RM2 on-board system** also implements the functional properties of the safety device. The entire system consists of a closed secure core and application-variable extension modules. It combines the functions of a registration speedometer, an on-board recording device and a security system for monitoring vigilance. The safety functions reach the SIL4 safety integrity level.

In order to achieve the level of safety, **MIREL RM2** also performs continuous self-diagnostics and a functional test to check the correct execution of system functions. It can be installed on vehicles of all tractions.

## Advantages of MIREL RM2

- ✓ Variable safety level SIL4/SILO
- ✓ Safe binary outputs
- ✓ Long life
- ✓ Speed indication with SIL2
- ✓ Scalability and modularity

# Functions MIREL RM2

## Primary

- Speed measurement and indication
- Vigilance control
- Maximum speed control
- Data registration
- Control of safety outputs
- System intervention
- Providing data to the communication interface

## Secondary

(using expansion modules)

- Registration of variable sensed technological data
- Communication gateway function for data from systems installed on HDV
- Time synchronization and HDV location registration via data from the GPS system
- Control of technological binary outputs

The MIREL RM2 integrated on-board system can work in four modes:

1. POS – Shunting mode

3. PRA – Work mode

2. PRE – Operating mode

4. ZAV – Dead-in-tow mode

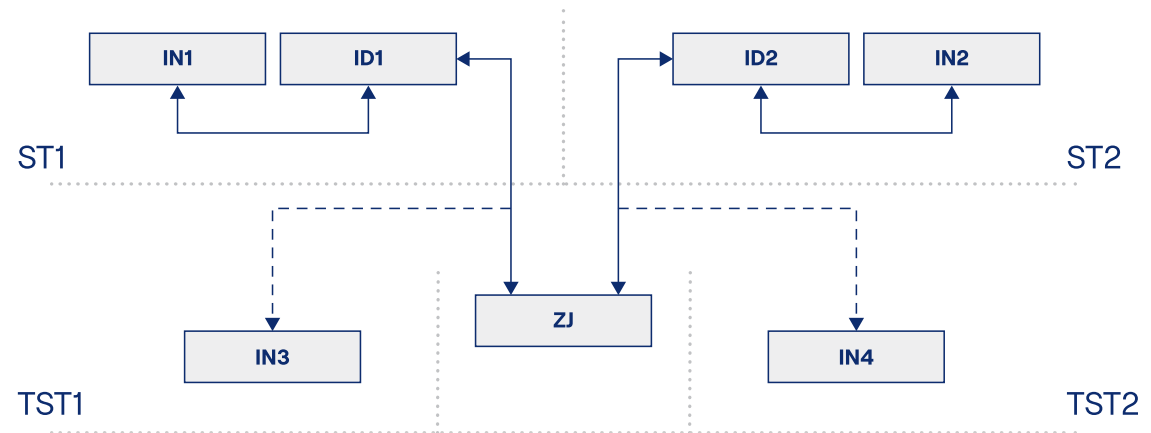
# Basic system composition of MIREL RM2

The complete set of the MIREL RM2 system includes the following devices:

Central Unit – 1

Indication Unit – max. 4

Identification Unit – max. 2



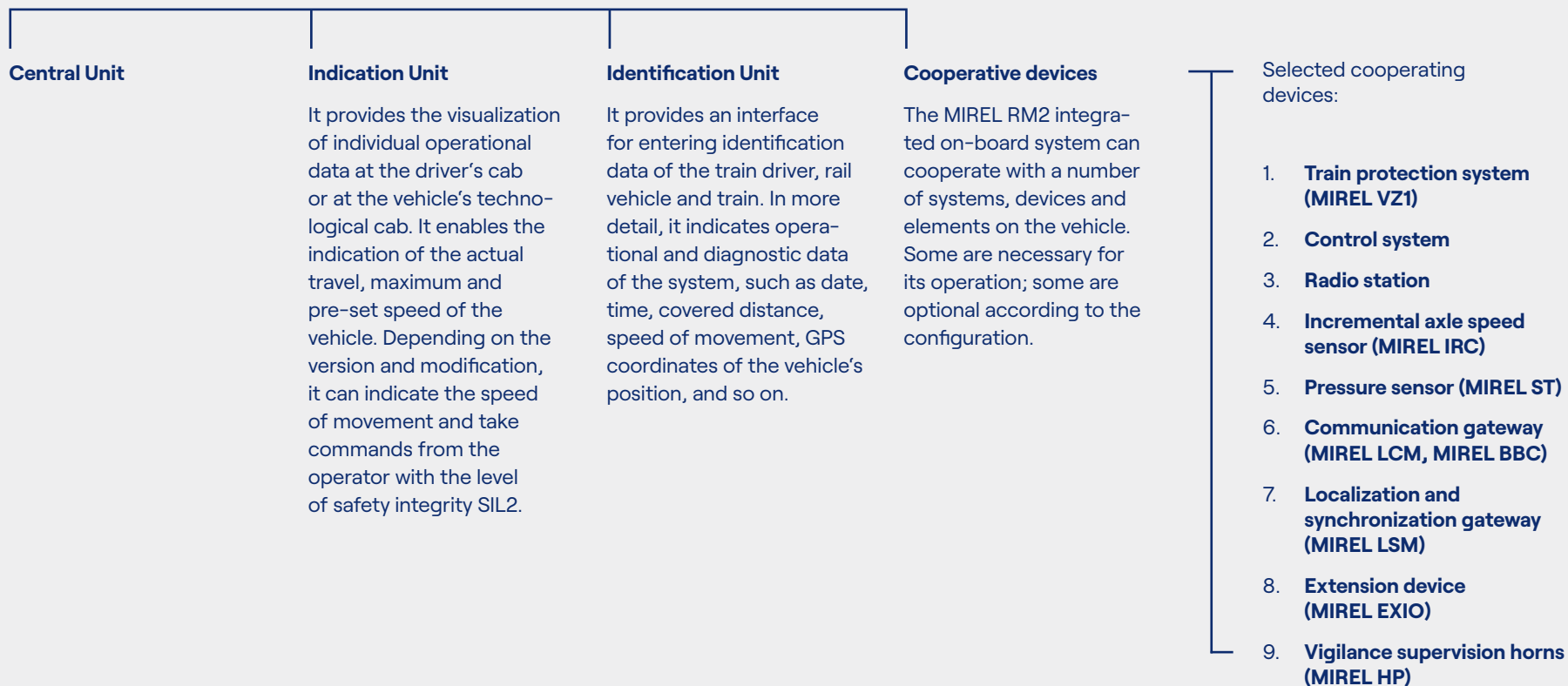
## Central Unit

It provides safety, operational and system functions of the MIREL RM2 integrated on-board system. Without the need for expansion modules, it can be delivered in a compact version, the so-called BOXTUG or BOXKOG. Registration of operational and technological data can be implemented as part of a system meeting the requirements of the EN 62625 standard.

### The most important functions of the central unit:

- Measurement of speed, covered distance and direction of movement
- Driver's vigilance control
- Maximum speed control
- Data registration
- Emergency vehicle stop and system intervention
- Collection and registration of operational and technological data
- Communication with connected cooperating devices

# MIREL RM2



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