

## The integrated on-board system MIREL RM2

### Type **RM2**

illustration picture

The integrated on-board system MIREL RM2 is a digital electronic system designed on the basis of the state-of-art electronic parts constructed as a safety device. The used parts base complies with the demand criteria for reliability and robustness. The safety is ensured by the double processor unit, the set of special supervisory circuits, the two-channel measuring of the speed and the two-channel exposure and evaluation of safety relevant signals.

The integrated on-board system MIREL RM2 ensures the following primary functions: measurement of the immediate speed through impulse revolution sensors, measurement of the travelled distance, the control of the train operator's vigilance, the display of the safe digital outputs depending on the immediate speed, the registration of instantaneous velocity and the additional operating and technical data in relation to the time and track's independent scale.

The integrated on-board system MIREL RM2 is constructed as an open system consisting of the safety core and the application-variable extensive modules and cooperating devices. The extensive modules and associated devices allow the additional secondary operations: the variability of the sensed registered data, the display of the binary technology signals based on the distance covered and other operating parameters, functions of the communication gate for the HDV systems, functions of the communication gate for the systems beyond HDV using the GSM technology, the time synchronization and positioning by the GPS technology.

The integrated on-board system MIREL RM2 performs continuous self-diagnostics and enables you to perform functional exam for testing the proper function of the important components of an integrated on-board system MIREL RM2 and cooperating equipment for the vehicle on rails. In addition to carrying out functional tests and prophylactic control, such device is maintenance-free.



#### Modifications

Designation	Nominal supply voltage [VDC]	Basic unit	Indication unit	Identification unit	Program tools	Maximal displayed speed [km/h]
RM2.1.201A	24	RM2ZJ.1.201AAMRL	-	-	01	-
RM2.1.201B	24	RM2ZJ.1.201BBMRL	2x RM2IN.1.201B	2x RM2ID.1.201A	01	190
RM2.1.201C	24	RM2ZJ.1.201LCMRBGL	2x RM2IN.S.201A	1x RM2ID.1.201A	01	190
RM2.1.201D	24	RM2ZJ.1.201LCMRBGL	2x RM2IN.S.201A	2x RM2ID.1.201A	01	190
RM2.1.201E	24	RM2ZJ.1.201LCMRBL	2x RM2IN.S.201A	2x RM2ID.1.201A	01	190
RM2.1.201G	24	RM2ZJ.1.201PGMB	2x RM2IN.S.201A	-	01	190
RM2.1.201K	24	RM2ZJ.1.201AJMRLS	-	-	01	-
RM2.1.201L	24	RM2ZJ.1.201BHMRL	2x RM2IN.1.201B	2x RM2ID.1.201A	01	190
RM2.1.201M	24	RM2ZJ.1.201AHMRL	2x RM2IN.1.201B	2x RM2ID.1.201A	01	120
RM2.1.201N	24	RM2ZJ.1.201BKMRLS	1x RM2IN.S.201A	1x RM2ID.1.201A	01	190
RM2.1.201P	24	RM2ZJ.1.201ARMRL	2x RM2IN.S.201A	2x RM2ID.1.201A	01	190
RM2.1.201S	24	RM2ZJ.1.201LCMRBL	2x RM2IN.S.201A	1x RM2ID.1.201A	01	190
RM2.1.401F	48	RM2ZJ.1.401BFMRL	2x RM2IN.1.401A	2x RM2ID.1.401A	01	120

Designation	Nominal supply voltage [VDC]	Basic unit	Indication unit	Identification unit	Program tools	Maximal displayed speed [km/h]
RM2.1.401H	48	RM2ZJ.1.401BHMRL	2x RM2IN.1.401A	2x RM2ID.1.401A	01	120
RM2.1.401J	48	RM2ZJ.1.401LCMRBL	2x RM2IN.1.401A	2x RM2ID.1.401A	01	120
RM2.1.401L	48	RM2ZJ.1.401BHMRL	2x RM2IN.1.401B	2x RM2ID.1.401A	01	190

#### Modifications prepared for new applications

Designation	Nominal supply voltage [VDC]	Basic unit	Indication unit	Identification unit	Program tools	Maximal displayed speed [km/h]
RM2.1.401R	48	RM2ZJ.1.401LCMRBL	1x RM2IN.2.401B1 1x RM2IN.2.401B2	-	01	120

#### Specifications

Catalogue sheet was prepared based on the following specifications:

Number:	Version	Name
1976RM2	200122	Technical conditions
1986RM2	180214	Operational manual
1987RM2	180620	Operational manual Diagnostics