

# Registration speed meter MIREL RM1

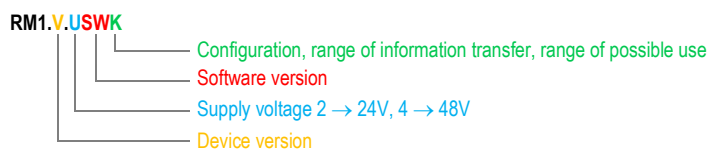
## Type **RM1**

illustrative picture

The MIREL RM1 registration speed meter is a system constructed for use on railway line vehicles of any traction. The RM1 ensures three basic functions: measuring of instantaneous speed, indication of instantaneous speed and additional information, archiving of instantaneous speed and other operational and technical data in relation to a time and track independent measure. The MIREL RM1 registration speed meter performs continuous self-diagnostics and allows the performing of a functional test for testing the correct functioning of all components of the RM1 speed meter and cooperating devices on a railway wagon. In addition to performing functional tests and protective controls the device is maintenance-free.



### Nomenclature



### Modifications

For new applications is recommended MIREL RM2 system, see document 1988RM2 RM2 Catalogue sheet.

### Modifications prepared for new applications

| Designation       | System functionality version | Basic unit    | Identification unit | Indication unit | Recording unit | Notes  |
|-------------------|------------------------------|---------------|---------------------|-----------------|----------------|--------|
| <b>RM1.2.403B</b> | 03                           | RM1ZJ.2U.405A | 2x RM1ID.0.405      | 2x RM1IN.0.4J05 | RM1AR.2U.401A  | WF1001 |
| <b>RM1.2.403H</b> | 03                           | RM1ZJ.2U.405A | –                   | –               | RM1AR.2U.401A  | WF959  |
| <b>RM1.2.403J</b> | 03                           | RM1ZJ.2U.405A | –                   | 2x RM1IN.0.4J05 | RM1AR.2U.401A  | WF1000 |

### Specification

Catalogue sheet was prepared on the basis of the following specifications:

| No.     | Version | Title                           |
|---------|---------|---------------------------------|
| 297RM1  | 150325  | Technical conditions            |
| 1598RM1 | 190515  | Installation manual             |
| 357RM1  | 190405  | Operating manual                |
| 278RM1  | 190405  | Maintenance manual, diagnostics |

### Modifications not recommended for new applications

| Designation | System functionality version | Basic unit   | Identification unit | Indication unit | Recording unit | Replacement |
|-------------|------------------------------|--------------|---------------------|-----------------|----------------|-------------|
| RM1.1.203A  | 03                           | RM1ZJ.1.205A | 2x RM1ID.0.205      | 2x RM1IN.0.2C05 | –              | 1)          |
| RM1.1.203B  | 03                           | RM1ZJ.1.205A | 2x RM1ID.0.205      | 2x RM1IN.0.2J05 | –              | 1)          |
| RM1.1.203D  | 03                           | RM1ZJ.1.205A | 2x RM1ID.0.205      | –               | –              | 1)          |
| RM1.1.203E  | 03                           | RM1ZJ.1.205A | 1x RM1ID.0.205      | 2x RM1IN.0.2C05 | –              | 1)          |
| RM1.1.203F  | 03                           | RM1ZJ.1.205A | 1x RM1ID.0.205      | 1x RM1IN.0.2J05 | –              | 1)          |
| RM1.1.203G  | 03                           | RM1ZJ.1.205A | –                   | 1x RM1IN.0.2J05 | –              | 1)          |
| RM1.1.203H  | 03                           | RM1ZJ.1.205A | –                   | –               | –              | 1)          |
| RM1.1.203K  | 03                           | RM1ZJ.1.205A | 1x RM1ID.0.205      | 2x RM1IN.0.2J05 | –              | 1)          |
| RM1.1.403A  | 03                           | RM1ZJ.1.405A | 2x RM1ID.0.405      | 2x RM1IN.0.4C05 | –              | 1)          |
| RM1.1.403B  | 03                           | RM1ZJ.1.405A | 2x RM1ID.0.405      | 2x RM1IN.0.4J05 | –              | 1)          |
| RM1.1.403H  | 03                           | RM1ZJ.1.405A | –                   | –               | –              | 1)          |
| RM1.1.403J  | 03                           | RM1ZJ.1.405A | –                   | 2x RM1IN.0.4J05 | –              | 1)          |

<sup>1)</sup> for new applications is recommended MIREL RM2 system, see document 1988RM2 RM2 Catalogue sheet.



## Discontinued modifications

| Designation | System functionality version | Basic unit    | Identification unit | Indication unit | Replacement <sup>1)</sup> |
|-------------|------------------------------|---------------|---------------------|-----------------|---------------------------|
| RM1.0.203A  | 03                           | RM1ZJ.0.2840  | 2x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203A                |
| RM1.0.203B  | 03                           | RM1ZJ.0.2G00  | 2x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203A                |
| RM1.0.203C  | 03                           | RM1ZJ.0.2G40  | 1x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203E                |
| RM1.0.203D  | 03                           | RM1ZJ.0.2G41  | 2x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203A                |
| RM1.0.203E  | 03                           | RM1ZJ.0.2G40M | 2x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203A                |
| RM1.0.203F  | 03                           | RM1ZJ.0.2G40  | 2x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203A                |
| RM1.0.203G  | 03                           | RM1ZJ.0.2G41M | 1x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203E                |
| RM1.0.203H  | 03                           | RM1ZJ.0.2G40  | 2x RM1ID.0.2        | 2x RM1IN.0.2J   | RM1.1.203B                |
| RM1.0.203J  | 03                           | RM1ZJ.0.2G82  | 2x RM1ID.0.2        | 1x RM1IN.0.2J   | -                         |
| RM1.0.203K  | 03                           | RM1ZJ.0.2G81M | 2x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203A                |
| RM1.0.203L  | 03                           | RM1ZJ.0.2G41M | 2x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203A                |
| RM1.0.203M  | 03                           | RM1ZJ.0.2G00  | 2x RM1ID.0.2        | -               | RM1.1.203D                |
| RM1.0.203R  | 03                           | RM1ZJ.0.2G81M | 2x RM1ID.0.2        | 2x RM1IN.0.2J   | RM1.1.203B                |
| RM1.0.204N  | 03                           | RM1ZJ.0.2G40  | -                   | -               | RM1.1.203H                |
| RM1.0.204P  | 03                           | RM1ZJ.0.2G81M | -                   | 1x RM1IN.0.2J   | RM1.1.203G                |
| RM1.0.403F  | 03                           | RM1ZJ.0.4G40  | 2x RM1ID.0.4        | 2x RM1IN.0.4C   | RM1.1.403A                |
| RM1.0.403G  | 03                           | RM1ZJ.0.4G40M | 2x RM1ID.0.4        | 2x RM1IN.0.4C   | RM1.1.403A                |
| RM1.0.403H  | 03                           | RM1ZJ.0.4G40  | 2x RM1ID.0.4        | 2x RM1IN.0.4J   | RM1.1.403B                |
| RM1.0.403I  | 03                           | RM1ZJ.0.4G41  | 2x RM1ID.0.4        | 2x RM1IN.0.4J   | RM1.1.403B                |
| RM1.0.403S  | 03                           | RM1ZJ.0.480M  | 2x RM1ID.0.4        | 2x RM1IN.0.4C   | RM1.1.403A                |
| RM1.0.203S1 | 03                           | RM1ZJ.0.2G40M | 1x RM1ID.0.2        | 2x RM1IN.0.2C   | RM1.1.203E                |
| RM1.0.203S5 | 03                           | RM1ZJ.0.2G40M | 2x RM1ID.0.2        | 2x RM1IN.0.2J   | RM1.1.203B                |
| RM1.0.403S2 | 03                           | RM1ZJ.0.4G81  | 2x RM1ID.0.4        | 2x RM1IN.0.4J   | RM1.1.403B                |
| RM1.0.403S3 | 03                           | RM1ZJ.0.4G40M | -                   | -               | RM1.1.403H                |
| RM1.0.403S6 | 03                           | RM1ZJ.0.4G41M | 2x RM1ID.0.4        | 2x RM1IN.0.4J   | RM1.1.403B                |
| RM1.0.404S4 | 03                           | RM1ZJ.0.4G41M | -                   | 2x RM1IN.0.4J   | RM1.1.403J                |
| RM1.1.203C  | 03                           | RM1ZJ.1.205B  | 1x RM1ID.0.205      | 2x RM1IN.0.2C05 | RM1.1.203E                |
| RM1.1.203U1 | 03                           | RM1ZJ.1.205F  | 1x RM1ID.0.205      | 2x RM1IN.0.2C05 | RM1.1.203E                |
| RM1.1.203U2 | 03                           | RM1ZJ.1.205B  | 2x RM1ID.0.205      | 2x RM1IN.0.2C05 | RM1.1.203A                |
| RM1.1.203U3 | 03                           | RM1ZJ.1.205F  | -                   | -               | RM1.1.203H                |
| RM1.1.403U4 | 03                           | RM1ZJ.1.405G  | 2x RM1ID.0.405      | 2x RM1IN.0.4C05 | RM1.1.403A                |
| RM1.1.403U5 | 03                           | RM1ZJ.1.405F  | 2x RM1ID.0.405      | 2x RM1IN.0.4C05 | RM1.1.403A                |
| RM1.1.403U6 | 03                           | RM1ZJ.1.405F  | 2x RM1ID.0.405      | 2x RM1IN.0.4J05 | RM1.1.403B                |
| RM1.1.403U7 | 03                           | RM1ZJ.1.405B  | 2x RM1ID.0.405      | 2x RM1IN.0.4J05 | RM1.1.403B                |
| RM1.1.403U8 | 03                           | RM1ZJ.1.405B  | -                   | 2x RM1IN.0.4J05 | RM1.1.403J                |
| RM1.1.403U9 | 03                           | RM1ZJ.1.405F  | -                   | -               | RM1.1.403H                |

<sup>1)</sup> see the table of not recommended modifications for new applications