



# OIML Certificate of Conformity

**OIML Member State**  
The Netherlands

Number R134/2006-NL1-16.01 Revision 1  
Project number 15200071  
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|                                      |  |
|--------------------------------------|--|
| Issuing authority                    | NMi Certin B.V.<br>Person responsible: C. Oosterman  |
| Applicant and Manufacturer           | iWIM S.r.l.<br>via Kufstein 1<br>38121 Trento<br>Italy   |
| Identification of the certified type | <b>Automatic instrument for weighing road vehicles in motion.</b><br><b>Total vehicle weighing</b><br>Type : iWIM50_10 |
| Characteristics                      | See next page  |

This Certificate attests the conformity of the above identified Type (represented by the samples identified in the associated report, the description R134/2006-NL1-16.01 Revision 1 and the appertaining documentation folder R134-16.01-1) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**OIML R 134** - Edition 2006 for accuracy class 10

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

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Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
20 February 2017

  
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## Characteristics of the instrument:

|                                   |   |
|-----------------------------------|---|
| Accuracy class                    | 10  |
| Maximum capacity                  | Max = 20 t  |
| Minimum capacity                  | Min = 1.5 t   |
| Verification scale interval       | d = 200 kg  |
| Maximum number of scale intervals | n = 100 divisions   |
| Maximum transit speed             | 50 km/h   |
| Maximum number of axles           | 10  |
| Temperature range                 | -10 °C / +40 °C   |
| Power supply voltage              | 110 –240 V AC 50/60 Hz  |
| Application                       | non-fluid loaded vehicles   |
| Identification code (hash)        | software 8B7DEFE136EDAA0D859474D84CA117BB05A5E829                 |
|                                   | type specific parameters 332B660FEDF8A6085CAA876110E9EF9CC141FB83 |

The conformity was established by the results of tests and examinations provided in the associated type evaluation report:  
NMI-15200071-01 that includes 36 pages.

### \*Note

The note in Scope (clause 1.1) of OIML R 134-1 reads: "national legislation is advised to prescribe more extensive verification methods when used in automatic mode for enforcement purposes (without police officer present)."

## Revision History

This revision replaces the previous version(s).

| Revision | Date             | Change(s)  |
|----------|------------------|--|
| Initial  | 28 July 2016     | -  |
| 1        | 20 February 2017 | Adding *Note based on text in Note of 1.1 Scope of OIML R134-1 and minor editorial changes in the description. |

## 1 General information about the instrument

All properties of the instrument, whether mentioned or not, may not be in conflict with the recommendation.

### 1.1 Essential parts

| Number         | Pages | Description  | Remark |
|----------------|-------|--------------|--------|
| R134-16.01/-01 | 1     | Blockdiagram | -      |
| R134-16.01/-02 | 1     | Overview     | -      |

EMI protection measures:

- Electronics inside metal housing;
- Interrogator and light source inside aluminium closed housing;
- Power supply filter manufacturer Schurter, type KMF1.1191.11.

Electronics:

- Interrogator:

| Number         | Pages | Description                      | Remark |
|----------------|-------|----------------------------------|--------|
| R134-16.01/-03 | 2     | Interrogator layout & parts list | -      |

- InGaAs linear image sensor, manufacturer Hamamatsu, type G11620-512DA.

Mechanical assembly with sensors:

| Number         | Pages | Description                                     | Remark |
|----------------|-------|---|--------|
| R134-16.01/-04 | 2     | Load receptor with position of sensors          | -      |
| R134-16.01/-05 | 1     | Specification Fiber Bragg Grating strain gauges | -      |



# Description

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## 1.2 Essential shapes

The instrument is built according to the drawings in clause 1.1.

Markings:

- The markings have to meet the requirements mentioned in OIML R 134 (2006).
- The data plate is fixed to the console of the instrument and secured against removal by sealing or will be destroyed when removed.

The instrument is installed in a fixed position

## 1.3 Conditional parts

Power supply, manufacture Anthin, type API324-0540;  
Universal computer with electromagnetic immunity class E2;  
Light source, manufacture DensLight Semiconductors, type DL-BP1-1501A.

## 2 Sealing

To secure components that may not be dismantled or adjusted by the user, the instrument has to be secured in a suitable manner on the locations indicated in the drawing:

| Number         | Pages | Description  | Remark |
|----------------|-------|--------------|--------|
| R134-16.01/-06 | 1     | Sealing rack | -      |

The software is sealed by means of the software identification codes specified in clause "Characteristics of the instrument".

The device specific parameters (configuration & adjustment) are protected with a separate identification code.