



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. Person responsible: C. Oosterman
Applicant and Manufacturer	iWIM S.r.l. via Kufstein 1 38121 Trento Italy
Identification of the certified type	Automatic instrument for weighing road vehicles in motion. Total vehicle weighing 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.