

OIML Certifica

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Issuing authority NMi Certin B.V.

Person responsible: M. Boudewijns

Applicant and Manufacturer

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Italy

Identification of the certified type

Automatic instrument for weighing road vehicles in motion.

Total vehicle weighing

Type iWIM50 10, iWIM90 10

Characteristics See next page

This OIML Certificate is issued under scheme B

This Certificate attests the conformity of the above identified Type (represented by the samples identified in the associated reports, the description R134/2006-B-NL1-20.01 and the appertaining documentation folder R134-20.01-1) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):



OIML R 134 - Edition 2006 for accuracy class 10

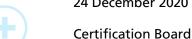
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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1 24 December 2020



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Characteristics of the instrument:

type of instrument		iWIM50_10)	iWIM90_10	
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			
Load receptor configuration			1 or more pairs of load receptors on 1 or more lanes			
Vehicle position detection			automatic (cross) lane detection and identification			
Maximum transit speed for all vehicles			50 km/h			
Maximum transi vehicle weight >	50 km/h 90 km/h			90 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		E136EDAA0 CA117BB05A		922EBC376DD9DB23085B238 40759007E3188996F	
	type specific parameters		0FEDF8A608 0E9EF9CC141		7138474584A4E4DDFEDE11E FCEE091C9BB5D122B	

The conformity was established by the results of tests and examinations provided in the associated type evaluation reports:

- No. NMi-15200071-01 dated 22 July 2016 that includes 36 pages;
- No. NMi-15200071-01-annex dated 22 July 2016 that includes 33 pages;
- No. NMi-2519822-01 dated 24 December 2020 that includes 17 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)."









Description



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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
R134-20.01/0-01	1	Block diagram configuration A and A alternative	-
R134-20.01/0-02	1	Block diagram configuration B	-
R134-20.01/0-03	2	Overview of the configurations A, A alternative and B	-

Configuration A contains the light source and interrogator inside the rack.

Configuration A alternative contains the light source and interrogator inside a separate aluminium box, the acquisition module, inside the rack.

Configuration B contains the acquisition module that is contained within a rack together with a PC.

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
R134-20.01/0-04	2	Interrogator layout & parts list	With optical connection to sensor

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

Mechanical assembly with sensors:

Number	Pages	Description	Remark
R134-20.01/0-05	2	Load receptor with position of sensors	Version 1.1
R134-20.01/0-06	2	Load receptor with position of sensors	Version 1.2
R134-20.01/0-07	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 DenseLight Semiconductors, type DL-BP1-1501A.

The instrument may be equipped with one or more of the following protective interfaces that have not to be secured:

USB device.

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 as indicated in the drawings:

Number	Pages	Description	Remark
R134-20.01/0-08	1	Sealing acquisition rack	For configuration A
R134-20.01/0-09	1	Sealing of the light source and interrogator in a separate aluminium box (acquisition module)	For configuration A alternative and B

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.

The inscriptions contain the value of the global checksum and adjustment date.





