OIML R 91-3:2025(en)

Traffic speed meters

Part 3: Test report format



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Foreword

The International Organization of Legal Metrology (OIML) is a worldwide, intergovernmental organization whose primary aim is to harmonize the regulations and metrological controls applied by the national metrological services, or related organizations, of its Member States. The main categories of OIML publications are:

- International Recommendations (OIML R), which are model regulations that establish the metrological characteristics required of certain measuring instruments and which specify methods and equipment for checking their conformity. OIML Member States shall implement these Recommendations to the greatest possible extent;
- International Documents (OIML D), which are informative in nature and which are intended to harmonize and improve work in the field of legal metrology;
- International Guides (OIML G), which are also informative in nature and which are intended to give guidelines for the application of certain requirements to legal metrology; and
- International Basic Publications (OIML B), which define the operating rules of the various OIML structures and systems.

OIML Draft Recommendations, Documents and Guides are developed by Project Groups linked to Technical Committees or Subcommittees which comprise representatives from the Member States. Certain international and regional institutions also participate on a consultation basis. Cooperative agreements have been established between the OIML and certain institutions, such as ISO and the IEC, with the objective of avoiding contradictory requirements. Consequently, manufacturers and users of measuring instruments, test laboratories, etc. may simultaneously apply OIML publications and those of other institutions.

International Recommendations, Documents, Guides and Basic Publications are published in English (E) and translated into French (F) and are subject to periodic revision.

Additionally, the OIML publishes or participates in the publication of **Vocabularies (OIML V)** and periodically commissions legal metrology experts to write **Expert Reports (OIML E)**. Expert Reports are intended to provide information and advice, and are written solely from the viewpoint of their author, without the involvement of a Technical Committee or Subcommittee, nor that of the CIML. Thus, they do not necessarily represent the views of the OIML.

This publication – reference OIML R 91-3, Edition 2025 – was developed by Project Group 3 of OIML Technical Subcommittee TC 7/SC 4 *Measuring instruments for road traffic*. It was approved for final publication by the International Committee of Legal Metrology at its 60th meeting in October 2025. It supersedes the previous edition of OIML R 91 dated 1990.

There was also a change of title of the publication from "Radar equipment for the measurement of the speed of vehicles" to "Traffic speed meters" to make the publication as general as is possible regarding the different technologies implemented in the measuring principle.

OIML Publications may be downloaded from the OIML web site in the form of PDF files. Additional information on OIML Publications may be obtained from the Organization's headquarters:

Bureau International de Métrologie Légale 11, rue Turgot - 75009 Paris - France

Telephone: 33 (0)1 48 78 12 82

Fax: 33 (0)1 42 82 17 27 E-mail: biml@oiml.org Internet: www.oiml.org

Introduction

The "Test report", the subject of OIML R 91-3, aims at presenting, in a standardized format, the results of the various tests and examinations to which a type of speed meters shall be submitted with a view to its approval.

The "Test report" is a record of the results of the tests carried out on the instrument. The "Test report" forms have been produced based on the tests detailed in the performance test procedures (OIML R 91-2).

The "information concerning the test equipment used for type evaluation" shall cover all test equipment which has been used in determining the test results given in a report. The information may be a short list containing essential data (name, type, reference number for purpose of traceability). For example:

- Verification standards (accuracy or accuracy class, and no.);
- Simulator for testing of modules (name, type, traceability and no.);
- Climatic test and static temperature chamber (name, type and no.);
- Electrical tests, bursts (name of the instrument, type and no.);
- Description of the procedure of field calibration for the electromagnetic susceptibility test.

All metrology services or laboratories evaluating types of speed meters according to OIML R 91-1 and -2 or to national or regional regulations based on OIML R 91-1 and -2 are strongly advised to use this "Test report format", directly or after translation into a language other than English or French. Its direct use in English or in French, or in both languages, is even more strongly recommended whenever test results may be transmitted by the country performing these tests to the approving authorities of another country, under bi- or multi-lateral cooperation agreements. In the framework of the OIML Certification System (OIML-CS), use of the "Test report format" is mandatory.

Test report

Explanatory notes

Symbols	Meaning
v [km/h]	Indicated speed of measured vehicle
$v_{\rm EGO}$ [km/h]	EGO speed of speed meter, when the speed meter is installed in a vehicle
$v_{\rm ref}$ [km/h]	Reference measured speed by reference speed meter or simulator
$\Delta v [\text{km/h}]$	Absolute difference between v in v_{ref}
MPE [km/h]	Maximum permissible error
N	Constant number of performed measurements, typical value 500, 50 or 5
$a_{\rm ref}$ [m/s ²]	Acceleration for dynamic performance test
<i>d</i> [m]	Distance to vehicle for linearity test
<i>α</i> [°]	Angle to vehicle for linearity test

Explanatory notes (continued)

The name(s) or symbol(s) of the unit(s) used to express test results shall be specified on each form.

The boxes under the headings of the report should always be filled in according to the following example:

	At start	At end	
Temp.:	20.5	21.1	°C
Rel. h.:			%
Date:	2025-10-15	2025-10-15	yyyy-mm-dd
Time:	16:00:05	16:30:05	hh:mm:ss

where: Temp. = temperature

Rel. h. = relative humidity

[&]quot;Date" in the test report refers to the date on which the test was performed.

Manufacturer: Instrument category:				
Version	Serial no.			
Version	Serial no.			

Identification of the instrument (continued)

Description or other information pertaining to identification of the instrument (components, interfaces, configuration). Attach diagrams or drawings if available:

Describe, using point form, the measurement technology used:

Identification of the instrument (continued)

Description or other information pertaining to identification of the instrument: (include photograph(s) here if available)

Testing on: Complete instrument	Modu	ıle*
Categorisation	of speed meter	
Mode of use		
Principle of installation		
Working principle		
Triggering and camera		
Compensation for cosine error		
Rated operati	ng conditions	
	Minimum	Maximun
Speed measurement		
- Speed measurement [km/h]		
- EGO speed measurement [km/h], if applicable		
Vehicle identification		
Vehicle identification - Distance to vehicle [m], if applicable		
- Distance to vehicle [m], if applicable		
 Distance to vehicle [m], if applicable Angle to vehicle [°], if applicable 		
 Distance to vehicle [m], if applicable Angle to vehicle [°], if applicable Number of vehicles, if applicable 		
 Distance to vehicle [m], if applicable Angle to vehicle [°], if applicable Number of vehicles, if applicable Temperature 		
 Distance to vehicle [m], if applicable Angle to vehicle [°], if applicable Number of vehicles, if applicable Temperature Operating temperature [°C] 		

^{*} The test equipment (simulator or part of a complete instrument) connected to the module shall be defined in the test form(s) used

General information concerning the type (continued)

Use this space to indicate additional remarks and/or information: connecting equipment, interfaces and sensors, choice of the manufacturer regarding protection and specific speed meter requirements etc.

Indications and controls

Describe, using point form, all indications and controls of the instrument (such as wired or wireless communication with the instrument, installation, ready indication, error codes).:

Evidence file

Describe, using point form, evidence file for measurement (type of file, encryption, content, storage, retrieval, authentication):

Checking facility

Describe, using point form, checking facility (automatic and/or manual triggering, outcomes):

Alignment and aiming device

Describe, using point form, alignment procedure and use of aiming device, if applicable:

Test interface

Describe, using point form, test interface (access, parameters):

Software

Describe, using point form, the means used to protect legally relevant software in the instrument and indicate the version of the software present at the time of testing and how to verify this version number:

Sealing

Describe, using point form, the physical and electronic seals (e.g. audit trails) used to protect the metrological characteristics of the instrument, and how to access them. Also describe any remote access abilities available and how these are sealed:

Information concerning the test equipment used for type evaluation

List all test equipment used in this report (including descriptions of the equipment used for testing)

Equipment name	Manufacturer	Туре	Serial no.	Used for (test references)

Configuration for test

Use this space for additional information relating to equipment configuration, interfaces, data rates, protection options, additional devices and additional software for the instrument and/or simulator to support type evaluation.

Adjustments or modifications

Use this space for additional information relating to the identification of any authorized and agreed upon adjustments or modifications made to the sample or samples during the evaluation.

Summary of type evaluation tests

Requirement (OIML R 91-2)		Report page	Passed	Failed	Remarks
4	Metrological field test				
4.6	Maximum permissible error				
4.7	Statistical analysis of errors (optional)				
4.8	Assignment to image evidence				
5	Metrological laboratory tests by traffic simulation				
5.3	Dynamic performance test				
5.4	Speed linearity test				
5.5	Distance linearity test				
5.6	Angle linearity test				
6	Influence factor and disturbance tests				
6.1	Evaluation method (detailed checklist)				
6.5	Acceleration test				
6.6	Further influence quantity tests				
6.7	Installation and alignment of sensor and camera				
7	Tests specific to certain categories of speed meters				
7.1	Doppler-radar based speed meters				
7.2	Range-finding based speed meters				
7.3	Average speed meters				
7.4	Fixed-distance speed meters				
7.5	Image based speed meters				
7.6	Across-the-road speed meters				
7.7	Moving speed meters				
7.7.1	Moving metrological field test				
7.7.2	Metrological field test of ego speed meter				
7.7.3	Traffic simulation for moving speed meters				
8	Software examination				
8.3.1	General requirements (mandatory)				
8.3.2	Software protection (mandatory)				
8.3.3	Support of hardware features (mandatory)				
8.3.4	Specification and separation of legally relevant parts and specification of interfaces (optional)				
8.3.5	Maintenance and re-configuration (optional)				

Summary of environmental conditions (OIML R 91-2, 6.1 detailed)

Requirement (OIML R 91-2, 6.1)		Report page	Passed	Failed	Remarks
1	Dry heat (operating)				
2	Dry heat (storage)				
3	Cold (operating)				
4	Cold (storage)				
5	Damp heat, cyclic (condensing)				
6	Water (optional)				
7	Atmospheric pressure				
8	Sand and dust (optional)				
9	Salt mist (optional)				
10	Vibration (random)				
11	Mechanical shock				
12	DC mains voltage variation				
13	Ripple on DC mains power				
14	AC mains voltage variation				
15	AC mains frequency variation				
16	DC mains voltage dips, short interruptions and (short term) voltage variations				
17	AC mains voltage dips, short interruptions and reductions				
18	AC mains frequency harmonics				
19	VLF and LF disturbances on AC and DC mains				
20	Bursts (transients) on AC and DC mains				
21	Surges on AC and DC mains power lines				
22	Bursts (transients) on signal, data and control lines				
23	Surges on signal, data and control lines				
24	AC mains power frequency magnetic field				
25	Conducted (common mode) currents generated by RF electromagnetic fields				
26	RF electromagnetic fields				
27	Electrostatic discharges				
28	Low voltage of internal battery				
29	Voltage variations of a road vehicle battery				
30	Electrical transient conduction along supply lines of external 12 V and 24 V batteries				
31	Electrical transient conduction via lines other than supply lines for external 12 V and 24 V batteries				
32	Battery voltage variations during cranking				
33	Load dump test				

1 Metrological field test (OIML R 91-2, 4)

1.1 Traffic condition during measurement (OIML R 91-2, 4.3)

Application no.:			At start	At end	
Type designation:		Temp.:			°C
Observer:		Rel. h.:			%
		Date:			yyyy-mm-dd
		Time:			hh:mm:ss
Location: Describe, using point f	orm, the location (location, map, pl	notos,):			
Test site: Describe, using point fo	orm, the test site (road category, sp	eed limits,):			
Traffic conditions: Describe, using point fo	form, the traffic conditions (traffic c	lensity, distance	between vehic	les,):	
Number of measurem Describe, using point f	nents: form, the decision for number of exc	ecuted measuren	nents:		
Reference speed mete Describe, using point f	r: form, the used reference speed mete	r (manufacturer	type, serial, te	echnology, trac	eability,):

1.1 Traffic condition during measurement (OIML R 91-2, 4.3) (Continued)

Checklist for traffic conditions:

OIML R 91-2		Yes	No	Remarks
requirements		103	110	Kemarks
4.1	General conditions			
4.2	Choice of test sites			
4.3	Traffic condition during measurement			
4.4	Number of measurements			
4.5	Reference speed meter			
4.9	Testing at speeds above the legal limit up to the			
4.9	maximum specified speed			

Acceptance criterion:

The integer speed values from the EUT shall fulfil the MPE for stationary measurements (OIML R 91-1, 6.4).

Results:

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Remarks	:						
Result:							
Pass	F	ail					

1.2	Statistical	analysis of	f errors ((optional)	(OIML F	R 91-2, 4.7

Application no.:			. г	At start	At end		
Type designation: .			Temp.:			°C	
Observer: .			Rel. h.:			%	
			Date:			ууу	y-mm-dd
			Time:			hh:r	nm:ss
			. L				
Acceptance criterion:			1 (* 11				
For the subdivision the me $m + z \sigma$ shall be fully with						ie interva	$1 \lfloor m - z \sigma$,
The following factor z is c							
The following factor 2 is c	nosen as a measure	of confidence.	• • • • • • • • • • • • • • • • • • • •	•••••			
Results:							
		T	Т			1	
Interval	Mean deviation m	Standard deviation σ	m – z σ [km/h]	m + z σ [km/h]	MPE [km/h]	Pass	Fail
0 km/h 50 km/h	[km/h]	[km/h]	. ,				
50 km/h 100 km/h							
100 km/h 150 km/h							
150 km/h 200 km/h							
200 km/h 250 km/h							
250 km/h 300 km/h							
300 km/h 350 km/h							
300 KHZ II 330 KHZ I							
Remarks:							
Result:							
Pass Fail							

1.3	Assignment	to image	evidence ((OIML	R 91-2,	4.8)

Application no.:			At start	At end	
Type designation:		Temp.:			°C
Observer:		Rel. h.:			%
		Date:			yyyy-mm-dd
		Time:			hh:mm:ss
					•
Examples of evidence p	photos:				
Remarks:					
Result:					
Pass Fail					
ran ran					

2 Metrological laboratory tests by traffic simulation (OIML R 91-2, 5)

2.1 Dynamic performance test (OIML R 91-2, 5.3)

Application no.:	 	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
				_

Checklist for conditions:

OIML R 91-2 requirements		Yes	No	Remarks
5.1	General conditions			
5.2	Characteristics of the traffic simulator			

Acceptance criterion:

The integer speed values from the EUT shall fulfil the MPE for stationary measurements (OIML R 91-1, 6.4).

Results:

Measurement No.	v [km/h]	v _{ref} [km/h]	$a_{\rm ref}$ [m/s ²]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Remarks:

Result:		
Pass	Fail	

2.2 Speed linearity test (OIML R 91-2, 5.4)

Application no.:	 	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

Acceptance criterion:

The high-resolution speed values from the EUT shall fulfil the linearity error limit (OIML R 91-1, 6.5).

Results:

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Remarks:

Result:

Pass Fail

Application no.:		At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
	 L			

The distance values from the EUT shall fulfil the error limit specified by the manufacturer.

Results:

Measurement No.	<i>d</i> [m]	$d_{ref}[\mathrm{m}]$	$\Delta d[\mathrm{m}]$	MPE [m]	Pass	Fail
1						
2						
3						
N						

The reference speed for this kind of test should be 0 km/h.

Result:		
Pass	Fail	

2.4 Angle linearity test (OIML R 91-2, 5.6)

Application no.:	 _	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

Acceptance criterion:

The angle values from the EUT shall fulfil the error limit specified by the manufacturer.

Results:

Measurement No.	α [°]	α_{ref} [°]	Δα [°]	MPE [°]	Pass	Fail
1		0				
2		0				
3		0				
N		0				

Remarks:

Result:

Pass Fail

3 Influence factor and disturbance tests (OIML R 91-2, clause 6)

2 1	T)	1 4	/	4.
3.1	Drv	neat (lor	erating)
		11000	(~ r	, c

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
	 L		1	_

Acceptance criterion:

MPE

Linearity error limit defined in OIML R 91-1, 6.5 is respected during the presence of the influence factor. The evidence files produced for every measurement must not be corrupt and the photographic documentation must be of the same quality as without the influence factor (if camera is part of EUT).

Results:

Reference to OIML D 11:2013, clause 6

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Remarks:

Result:

Pass Fail

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFa

No significant fault occurred <u>after</u> the disturbance. The EUT shall continue to operate as intended after the test (manual intervention allowed).

Results:

Reference to OIML D 11:2013, clause 6

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

3.3	Cold	(operating)

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

MPE

Linearity error limit defined in OIML R 91-1, 6.5 is respected during the presence of the influence factor. The evidence files produced for every measurement must not be corrupt and the photographic documentation must be of the same quality as without the influence factor (if camera is part of EUT).

Results:

Reference to OIML D 11:2013, clause 7

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

3.4	Cold	(storage)
		(~~~~,

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFa

No significant fault occurred <u>after</u> the disturbance. The EUT shall continue to operate as intended after the test (manual intervention allowed).

Results:

Reference to OIML D 11:2013, clause 7

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

3.5	Damp	heat.	cvclic	(condensing	•)
•••	~		C , C 11 C	(0011011151115	١,

Application no.:	 	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

MPE

Linearity error limit defined in OIML R 91-1, 6.5 is respected during the presence of the influence factor. The evidence files produced for every measurement must not be corrupt and the photographic documentation must be of the same quality as without the influence factor (if camera is part of EUT).

Results:

Reference to OIML D 11:2013, clause 9

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

5.0 Water (Optional	3.6	Water	(optiona	al)
---------------------	-----	-------	----------	-----

Application no.:		At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFd

No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 10

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

3.7 Sand and dust (optional)

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFd

No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 13

Measurement No.	v [km/h]	v _{ref} [km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

3.8	Salt	mist ((01	ptional)

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFd

No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 14

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

3.9	Vibration ((random)

Application no.:		At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

MPE

Linearity error limit defined in OIML R 91-1, 6.5 is respected during the presence of the influence factor. The evidence files produced for every measurement must not be corrupt and the photographic documentation must be of the same quality as without the influence factor (if camera is part of EUT).

Results:

Reference to OIML D 11:2013, clause 15

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

1	10	7A /F 1	•		
•	111		nanica	l cha	1 7
J		IVICCI	iaiiiva	ı ənw	U IN

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFa

No significant fault occurred <u>after</u> the disturbance. The EUT shall continue to operate as intended after the test (manual intervention allowed).

Results:

Reference to OIML D 11:2013, clause 17

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

3.11	DC 1	mains	voltage	variation
			voicinge	, mi imeioii

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

MPE

Linearity error limit defined in OIML R 91-1, 6.5 is respected during the presence of the influence factor. The evidence files produced for every measurement must not be corrupt and the photographic documentation must be of the same quality as without the influence factor (if camera is part of EUT).

Results:

Reference to OIML D 11:2013, clause 18

No.	Conditions	v [km/h]	v _{ref} [km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
,							
N							

Result:		
Pass	Fail	

3.12	Rip	ple d	on DO	C mains	power
------	-----	-------	-------	---------	-------

Application no.:	 	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFd No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 19

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

2 12	A	•	■ 4	• 4•
3. L3	\mathbf{A} (\mathbf{n}	nains	voltage	variation
0.10		1141113	voitage	vai iativii

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

MPE

Linearity error limit defined in OIML R 91-1, 6.5 is respected during the presence of the influence factor. The evidence files produced for every measurement must not be corrupt and the photographic documentation must be of the same quality as without the influence factor (if camera is part of EUT).

Results:

Reference to OIML D 11:2013, clause 20

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δν[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Rema	rks:
------	------

Result:		
Pass	Fail	

~	4	4	A .	•	C		• 4•	
Í.	, I	4	AC	mains	treq	uency	variation	ĺ

Application no.:	 	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

MPE

Linearity error limit defined in OIML R 91-1, 6.5 is respected during the presence of the influence factor. The evidence files produced for every measurement must not be corrupt and the photographic documentation must be of the same quality as without the influence factor (if camera is part of EUT).

Results:

Reference to OIML D 11:2013, clause 21

No.	Conditions	v [km/h]	v _{ref} [km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.15	DC mains voltage dips, short interru	ptions and	(short term) voltage
	variations			

0110	variations	voitage aips, si			ila (silott te	- 111) VOICE	·5°
Applie	cation no.:				At start	At end	
Type	designation:		••••	Temp.:			°C
Obser	ver:			Rel. h.:			%
				Date:			yyyy-mm-dd
				Time:			hh:mm:ss
NSFd		t fault occurred during tanual intervention.	the disturbance	e. The EUT sl	hall continue to	operate as inte	ended after the
Result	s:						
Refere	nce to OIML D 11	1:2013, clause 22					
No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							

		,	 [km/n]	
1				
2				
3				
N				

Result:		
Pass	Fail	

3.16	AC mains	voltage	dips,	short	interru	ptions	and	reductions

Application no.:		At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
A4	L			_

NSFd

No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 23

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.17	\mathbf{AC}	mains	frea	uencv	harmo	onics
U.I.	1 - 0		4	acite	11661 1110	

Application no.:	 	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFd

No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 24

No.	Conditions	v [km/h]	v _{ref} [km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.18 VLF and LF disturbances on AC and DC mains

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
	 -			_

Acceptance criterion:

NSFd No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 25

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.19 Bursts (transients) on AC and DC main	3.19 B	ursts (1	transients)	on AC	and	DC	mains
--	--------	----------	-------------	-------	-----	----	-------

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
	·-			_

NSFd

No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 26

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.20	Surges	on	\mathbf{AC}	and	DC	mains	power	lines

Application no.:	 	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFd

No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 27

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.21	Bursts ((transients)	on signal,	data an	d control lines

Application no.:		At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
	 -			

NSFd

No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 28

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3	3.2	22	2	Sui	ges	on	si	gnal	l, d	lata	and	control	ine	S
-				 	5 ~~			o	, -					_

Application no.:	 	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFd No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 29

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.23	AC mains	power	frequency	magnetic magnetic	field
JJ		\mathbf{pomci}	II cquciic y	magnetic	110

Application no.:		At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	 Date:			yyyy-mm-dd
	Time:			hh:mm:ss
	 _			_

NSFd

No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 30

No.	Conditions	v [km/h]	v _{ref} [km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.24 Conducted (common mode) currents generated by RF electromagnetic fields

	fields	•	,		0	·		O
Applic	ation no.:					At start	At end	
Type d	lesignation:				Temp.:			°C
Observ	/er:				Rel. h.:			%
					Date:			yyyy-mm-dd
					Time:			hh:mm:ss
Accept NSFd		t fault occurred		disturbar	ice. The EUT	shall continue t	o operate as int	ended after the
Results Referen	s: nce to OIML D 1	1:2013, clause 3	1					
No.	Conditions	v [km/]	n] v_{ref}	[km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
l .	ĺ						1	l

No.	Conditions	v [km/h]	v _{ref} [km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.25	RF	electroma	ignetic	fiel	d	S
------	----	-----------	----------------	------	---	---

Applica	ation no.:			<u></u>	At start	At end	_
Type de	esignation:			Temp.:			°C
Observe	er:			Rel. h.:			%
	-			Date:			yyyy-mm-dd
				Time:			hh:mm:ss
Accepta	ance criterion:						_
NSFd	No significant	fault occurred <u>durir</u> anual intervention.	g the disturban	ce. The EUT	shall continue t	o operate as i	ntended after th
Results:	:						
Referen	ce to OIML D 11	:2013, clause 32					
No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							
Referen	ce to OIML D 11	2013, clause 33	1	1	1	-	
No.	Conditions	v [km/h]	v _{ref} [km/h]	$\Delta v [\text{km/h}]$	MPE [km/h]	Pass	Fail
1							
2							
3							
N							
Referen	ce to OIML D 11	:2013, clause 34	-			1	
No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							
		I				1	
Remark	KS:						
Dazz-14							
Result:							
Pass	Fail						

3.26 Electrostatic discharge	ges
------------------------------	-----

Application no.:		At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFd No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the

test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 35

No.	Conditions	v [km/h]	v _{ref} [km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Remarks:

Result:

Pass Fail

3.27	Low	voltage	of interna	ıl battery

Application no.:	 	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

MPE

Linearity error limit defined in OIML R 91-1, 6.5 is respected during the presence of the influence factor. The evidence files produced for every measurement must not be corrupt and the photographic documentation must be of the same quality as without the influence factor (if camera is part of EUT).

Results:

Reference to OIML D 11:2013, clause 36

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.28	Voltage	variations	of a	road	vehicle	battery

Application no.:	 	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

MPE

Linearity error limit defined in OIML R 91-1, 6.5 is respected during the presence of the influence factor. The evidence files produced for every measurement must not be corrupt and the photographic documentation must be of the same quality as without the influence factor (if camera is part of EUT).

Results:

Reference to OIML D 11:2013, clause 37

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.29 Electrical transient conduction along supply lines of external 12 V and 24 V batteries

Appli	cation no.:				At start	At end	
Type	designation:			Temp.:			°C
Obser	rver:			Rel. h.:			%
				Date:			yyyy-mm-dd
				Time:			hh:mm:ss
Accen	tance criterion:				•		_
NSFd	No significa	nt fault occurred durin	ng the disturbar	nce. The EUT	shall continue to	o operate as i	ntended after the
Resul	ts:						
Refere	ence to OIML D	11:2013, clause 38					
No.	Condition	s v [km/h]	v _{ref} [km/h]	Δν[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							
Resul	t:						
Pass	Fail						

3.30 Electrical transient conduction via lines other than supply lines for external 12 V and 24 V batteries

Appli	cation no.:				At start	At end	
Type	designation:			Temp.:			°C
Obsei	ver:			Rel. h.:			%
				Date:			yyyy-mm-dd
				Time:			hh:mm:ss
NSFd Result	test without i	nt fault occurred <u>durin</u> manual intervention. 11:2013, clause 39	g the disturband	ce. The EUT s	shall continue to	o operate as in	ntended after the
No.	Condition	ıs v [km/h]	v _{ref} [km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
 N							
Rema	rks:						
Result Pass							

2 2 1	TD 44	1 4	• 4•		1 •
4 4 1	Rottory v	Altama.	Variations	anrina	cranking
J.J I	Dallel V V	DILAYE	variations	uurme	CLAHKIHY

Application no.:		At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
	 _	1		_

NSFd No significant fault occurred <u>during</u> the disturbance. The EUT shall continue to operate as intended after the

test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 40

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.32 Load dump tes

Application no.:	 _	At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

NSFd No significant fault occurred during the disturbance. The EUT shall continue to operate as intended after the test without manual intervention.

Results:

Reference to OIML D 11:2013, clause 41

No.	Conditions	v [km/h]	v _{ref} [km/h]]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Result:		
Pass	Fail	

3.33	Acceleration	test	(OIML	R	91	-2,	6.5	
------	--------------	------	-------	---	----	-----	-----	--

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

The integer speed values from the EUT shall fulfil the MPE for stationary measurements (OIML R 91-1, 6.4).

Results:

Reference acceleration should be between $[-5 \text{ m/s}^2, -1.5 \text{ m/s}^2]$ and $[1.5 \text{ m/s}^2, 5 \text{ m/s}^2]$.

No.	Conditions	v [km/h]	v _{ref} [km/h]	a_{ref} [m/s ²]	Δv[km/h]	MPE [km/h]	Pass	Fail
1								
2								
3								
N								

R	em	ar	ks:
---	----	----	-----

Result:
Pass Fail

3.34	Further	influence of	quantity 1	tests (OIML	R 91-2,	6.6)

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

The high-resolution speed values from the EUT shall fulfil the linearity error limit (OIML R 91-1, 6.5).

Results:

No.	Conditions	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1							
2							
3							
N							

Remarks:

Result:

Fail ____

3.35	Installation and alignment of sensor and camera	(OIML R 91-2, 6.	7)

Application no.:		_	At start	At end	
Type designation:		Temp.:			°C
Observer:		Rel. h.:			%
		Date:			yyyy-mm-dd
		Time:			hh:mm:ss
Results:					
Mark observations as bu	ıllet points:				
Remarks:					
Result:					
Pass Fail					

4 Tests specific to certain categories of speed meters (OIML R 91-2, clause 7)

4.1 Doppler-radar based speed meters (OIML R 91-2, 7.1)

Application no.:			At start	At end	
Type designation:		Temp.:			°C
Observer:		Rel. h.:			%
		Date:			yyyy-mm-dd
		Time:			hh:mm:ss
Specific tests:					
a. Carrier frequency	or interval of modulated frequencies	3			
Results:					
Remarks:					
b. Antenna pattern te	st to determine beam width and seco	ondary beams and	d angles of the	measurement	beam
Results:					
Remarks:					
c. Equivalent isotrop	ic radiated power (EIRP) (optional)				
Results:					
Remarks:					

Doppler-radar based speed meters (OIML R 91-2, 7.1) (Continued)

d. Willimum and maximum of distance measurement (if applicable)
Results:
Remarks:
e. Accuracy of angle measurement, if applicable, and
c. Accuracy of angle measurement, if applicable, and
Results:
Remarks:
f. Accuracy of the aiming device, if applicable.
Results:
Remarks:
Result:
Pass Fail

4.2 Range-finding based speed meters (OIML R 91-2, 7.2)

Application no.:			At start	At end	
Type designation:		Temp.:			°C
Observer:		Rel. h.:			%
		Date:			yyyy-mm-do
		Time:			hh:mm:ss
Specific tests:					
a. Vehicle shape does	not significantly affect the speed r	neasurement			
Results:					
Remarks:					
b. Pulse repetition rate Results:	e or another characteristic of the tir	ne intervals betw	een the pulses		
Remarks:					
c. Beam width, second	dary beams and relevant characteri	stics of the field	of view (diverg	ence etc.)	

Range-finding based speed meters (OIML R 91-2, 7.2) (Continued)

d.	The exit angle of measurement beam, if applicable,
Res	ults:
Ren	narks:
e.	Influence of curve radius
Res	ults:
Ren	narks:
Res	
Pa	ss Fail

4.3 Average speed meters (OIML R 91-2, 7.3)

Application no.:		<u> </u>	At start	At end	_
Type designation:		Temp.:			°C
Observer:		Rel. h.:			%
		Date:			yyyy-mm-dd
		Time:			hh:mm:ss
Specific tests:					
a. the robustness of tin	ne synchronisation mechanism,				
Results:					
Remarks:					
1 d AMPEC C		1 1 4 2	1.	1' ' 1 1	1
b. that MPE for time i	measurement is fulfilled when vehi	cle detection an	d image record	ding are include	d,
Results:					
Remarks:					
c. maximum size of de	etection field, even at varying speed	ls. and			
	,,	,			
Results:					
Remarks:					
d. minimum distance b	petween entry and exit point.				
Results:					
Remarks:					
Result:					
Pass Fail					

4.4	Fixed-distance speed	meters	(OIML	R 91-2, 7.4)
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Application no.:			At start	At end	_
Type designation:		Temp.:			°C
Observer:		Rel. h.:			%
		Date:			yyyy-mm-dd
		Time:			hh:mm:ss
Specific tests:					
a. accuracy of trigger	point, and				
Results:					
Remarks:					
b. minimum and maxi	mum distance between trigger points.				
Results:					
Remarks:					
Result:					
Pass Fail					

4.5 Image based speed meters (OIML R 91-2, 7.5)

Application no.:		. <u> </u>	At start	At end	_
Type designation:		Temp.:			°C
Observer:		Rel. h.:			%
		Date:			yyyy-mm-dd
		Time:			hh:mm:ss
Specific tests:					
a. accuracy of trigger	point, and				
Results:					
Remarks:					
b. minimum and max	imum distance between trigger points				
Results:					
Remarks:					
c. minimum illumina	tion and fog				
Results:	C				
itesuits.					
Remarks:					
Result:					
Pass Fai	1				

Application no.:			At start	At end	_
Type designation:		Temp.:			°C
Observer:		Rel. h.:			%
		Date:			yyyy-mm-dd
		Time:			hh:mm:ss
Specific test:					
a. accuracy of aiming	device, if applicable				
Results:					
Remarks:					
b. influence of curve i	radius				
Results:					
Remarks:					
Result:					
Pass Fail					

5 Moving speed meters (OIML R 91-2, 7.7)

5.1 Moving metrological field test (OIML R 91-2, 7.7.1)

Application no.:		At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
	•			-

Results:

(on road conditions)

Measurement No.	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Remarks:

Result:
Pass Fail

5.2	Metrological field tes	of the ego speed meter ((OIML R 91-2, 7.7.2)

Application no.:	 _	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
	 <u></u>			⊒

Results:

Measurement No.	ν _{EGO} [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Remarks:

Result:
Pass Fail

5.3	Traffic	simulation	n for moving	speed meters	(OIML R	91-2, 7.7.3)
					,	, ,

Application no.:	 <u></u>	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss
Results:				_
Stationary mode				

Measurement No.	ν _{EGO} [km/h]	v [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1	0						
2	0						
3	0						
N	0						

Ego speed meter

Measurement No.	v _{EGO} [km/h]	v _{ref} [km/h]	Δv[km/h]	MPE [km/h]	Pass	Fail
1						
2						
3						
N						

Result:		
Pass	Fail	

6 Software examination (OIML R 91-2, clause 8)

6.1 General requirements [mandatory] (OIML R 91-2, 8.3.1)

11	 _	At start	At end	_
71 8	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

Results:

#	Requirement	OIML D 31:2023	Pass	Fail	Remark
1	Software identification	6.2.1			
2	Correctness of algorithms and functions	6.2.2			

Remarks:

Result:
Pass Fail

6.2 Software protection [mandatory] (OIML R 91-2, 8.3.2)

Application no.:	 	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

Results:

#	Requirement	OIML D 31:2023	Pass	Fail	Remark
3	Evidence and prevention of intervention	6.2.3			
4	Prevention of misuse	6.2.4			
5	Demands on the user	6.2.5			

Result:		
Pass	Fail	

6.3 Support of hardware features [mandatory] (OIML R 91-2, 8.3.3)

Application no.:	 	At start	At end	_
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

Results:

#	Requirement	OIML D 31:2023	Pass	Fail	Remark
6	Detection of significant defects	6.2.6.1			
7	Durability protection	6.2.6.2			
8	Time stamps	6.2.7			

Result:		
Pass	Fail	

6.4 Specification and separation of legally relevant parts and specification of interfaces [optional] (OIML R 91-2, 8.3.1)

Application no.:		At start	At end	
Type designation:	 Temp.:			°C
Observer:	 Rel. h.:			%
	Date:			yyyy-mm-dd
	Time:			hh:mm:ss

				l	
#	Requirement	OIML D 31:2023	Pass	Fail	Remark
9	Separation of components	6.3.2.1			
10	Specification and separation of software parts	6.3.2.2			
11	Shared indication	6.3.3			
12	Storage of data	6.3.4			
13	The measurement data stored shall be accompanied by all relevant information necessary for future legally relevant use	6.3.4.2			
14	The stored measurement data shall be protected by software means to guarantee the authenticity, integrity and correctness of the information concerning the speed measurement	6.3.4.3			
15	Automatic storing	6.3.4.4			
16	Data transmission	6.3.5			
17	The measurement data transmitted shall be accompanied by all relevant information necessary for future legally relevant use.	6.3.5.2			
18	The transmitted data shall be protected by software means to guarantee the authenticity, integrity and, if necessary correctness of the information concerning the speed of measurement.	6.3.5.3			
19	Transmission delay or interruption	6.3.5.4			
20	Compatibility of operating systems and hardware	6.3.6.2			
21	Hardware interfaces not equipped with a protective software interface shall not be able to inadmissibly influence the legally relevant software part.	6.3.6.2			
22	If a secure boot process is needed to ensure protection of the legally relevant software part, the following requirements apply.	6.3.6.3.1			
23	The combination of the legally relevant software part and the operating system shall ensure that there are enough resources for the operation of the legally relevant application.	6.3.6.4			
24	Protection during use	6.3.6.5			

#	Requirement	OIML D 31:2023	Pass	Fail	Remark
25	Communication with the legally relevant software part shall be made via protective interfaces.	6.3.6.6			
26	Identification and traceability	6.3.6.7			
27	The manufacturer shall identify the hardware and software environment that is suitable. Minimum resources and a suitable configuration necessary for correct functioning shall be declared by the manufacturer.	6.3.6.8			
28	Technical means shall be provided in the legally relevant software to prevent operation, if the minimum resources or a suitable configuration are not met.	6.3.6.9			

Result:		
Pass	Fail	1

6.5 Maintenance and re-configuration [optional] (OIML R 91-2, 8.3.1)

 	At start	At end	_
 Temp.:			°C
 Rel. h.:			%
Date:			yyyy-mm-dd
Time:			hh:mm:ss
	Temp.: Rel. h.: Date: Time:	Temp.: Rel. h.: Date: Time:	Temp.: Rel. h.: Date: Time:

Results:

#	Requirement	OIML D 31:2023	Pass	Fail	Remark
29	Verified update	6.3.8.3			
30	Traced update	6.3.8.4			

Result:		
Passed	Failed	

General remarks

Additional remarks: