
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:

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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_{EGO} [km/h]	EGO speed of speed meter, when the speed meter is installed in a vehicle
v_{ref} [km/h]	Reference measured speed by reference speed meter or simulator
Δv [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_{ref} [m/s ²]	Acceleration for dynamic performance test
d [m]	Distance to vehicle for linearity test
α [°]	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

“Date” in the test report refers to the date on which the test was performed.

Identification of the instrument

Application no.:		Applicant:	
Identification no.:		Manufacturer:	
Type designation:		Instrument category:	
Software version:		Report date:	

Documentation from the manufacturer:

(Record as necessary to identify the equipment under test)

System or module name	Drawing number or software reference	Version	Serial no.
.....			
.....			
.....			
.....			
.....			
.....			
.....			

Manufacturer provided simulator documentation (if applicable)

System or module name	Drawing number or software reference	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)

General information concerning the type

Testing on:

☐

Complete instrument

☐

Module*

Categorisation of speed meter	
Mode of use	
Principle of installation	
Working principle	
Triggering and camera	
Compensation for cosine error	

Rated operating conditions		
	Minimum	Maximum
Speed measurement		
- Speed measurement [km/h]		
- EGO speed measurement [km/h], if applicable		
Vehicle identification		
- Distance to vehicle [m], if applicable		
- Angle to vehicle [°], if applicable		
- Number of vehicles, if applicable		
Temperature		
- Operating temperature [°C]		
- Storage temperature [°C]		
Power supply		
- Voltage [V]		

Evaluation period:

Observer:

* 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:

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

[illegible]

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 form, the location (location, map, photos, ...):

Test site:

Describe, using point form, the test site (road category, speed limits, ...):

Traffic conditions:

Describe, using point form, the traffic conditions (traffic density, distance between vehicles, ...):

Number of measurements:

Describe, using point form, the decision for number of executed measurements:

Reference speed meter:

Describe, using point form, the used reference speed meter (manufacturer, type, serial, technology, traceability, ...):

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

Checklist for traffic conditions:

OIML R 91-2 requirements		Yes	No	Remarks
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 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 ☐ Fail ☐

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

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

Acceptance criterion:

For the subdivision the measurements from the metrological field test given above shall be used. The interval $[m - z \sigma, m + z \sigma]$ shall be fully within the MPE for stationary measurements (OIML R 91-1, 6.4).

The following factor z is chosen as a measure of confidence:

Results:

Interval	Mean deviation m [km/h]	Standard deviation σ [km/h]	$m - z \sigma$ [km/h]	$m + z \sigma$ [km/h]	MPE [km/h]	Pass	Fail
0 km/h .. 50 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							

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 photos:

Remarks:

Result:

Pass ☐ Fail ☐

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_{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 ☐

2.3 Distance linearity test (OIML R 91-2, 5.5)

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

Acceptance criterion:

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

Results:

Measurement No.	d [m]	d_{ref} [m]	Δd [m]	MPE [m]	Pass	Fail
1						
2						
3						
...						
N						

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

Remarks:

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} [°]	$\Delta\alpha$ [°]	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)

3.1 Dry heat (operating)

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

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 ☐

3.2 Dry heat (storage)

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

Acceptance criterion:

NSFa No significant fault occurred after 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						

Remarks:

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

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 7

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 ☐

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

Acceptance criterion:

NSFa No significant fault occurred after 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						

Remarks:

Result:

Pass ☐ Fail ☐

3.5 Damp heat, cyclic (condensing)

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

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 9

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 ☐

3.6 Water (optional)

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 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 10

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 ☐

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

Acceptance criterion:

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 13

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 ☐

3.8 Salt mist (optional)

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At start

At end

Temp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
hh:mm:ss

Acceptance criterion:
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 14

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 ☐

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

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 15

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 ☐

3.10 Mechanical shock

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

Acceptance criterion:

NSFa No significant fault occurred after 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						

Remarks:

Result:

Pass ☐ Fail ☐

3.11 DC mains voltage variation

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

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 18

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

☐

3.12 Ripple on DC mains power

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 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 19

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 ☐

3.13 AC mains voltage variation

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

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 20

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 ☐

3.14 AC mains frequency variation

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

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 21

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 ☐

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

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 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 22

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 ☐

3.16 AC mains voltage dips, short interruptions and reductions

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At startAt endTemp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
hh:mm:ss

Acceptance criterion:

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 23

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 ☐

3.17 AC mains frequency harmonics

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 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 24

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

☐

3.18 VLF and LF disturbances on AC and DC mains

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At start

At end

Temp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
hh:mm:ss

Acceptance criterion:

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 25

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

3.19 Bursts (transients) on AC and DC mains

Application no.:
Type designation:
Observer:

.....
.....
.....
.....

At startAt end

Temp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
hh:mm:ss

Acceptance criterion:

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 26

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

☐

3.20 Surges on AC and DC mains power lines

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At start

At end

Temp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
hh:mm:ss

Acceptance criterion:

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 27

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 ☐

3.21 Bursts (transients) on signal, data and control lines

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 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 28

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 ☐

3.22 Surges on signal, data and control lines

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 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 29

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 ☐

3.23 AC mains power frequency magnetic field

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 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 30

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

☐

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

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 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 31

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 ☐

3.25 RF electromagnetic fields

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 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 32

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

Reference to OIML D 11:2013, clause 33

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

Reference to OIML D 11:2013, clause 34

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 ☐

3.26 Electrostatic discharges

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At start

At end

Temp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
hh:mm:ss

Acceptance criterion:
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 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 internal battery

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

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 36

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

☐

3.28 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

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 37

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 ☐

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

Application no.:
 Type designation:
 Observer:

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

Acceptance criterion:

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 38

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 ☐

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

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 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 39

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 ☐

3.31 Battery voltage variations during cranking

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At startAt endTemp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
hh:mm:ss

Acceptance criterion:

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 40

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

3.32 Load dump test

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At startAt end

Temp.:
Rel. h.:
Date:
Time:

°C

%

yyyy-mm-dd

hh:mm:ss

Acceptance criterion:

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							

Remarks:

Result:

PassFail

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

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At start

At end

Temp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
hh:mm:ss

Acceptance criterion

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								

Remarks:

Result:

Pass

Fail

3.34 Further influence quantity 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

Acceptance criterion:

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:

Pass ☐ Fail ☐

3.35 Installation and alignment of sensor and camera (OIML R 91-2, 6.7)

Application no.:
Type designation:
Observer:
.....

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

Results:

Mark observations as bullet 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

Results:

Remarks:

- b. Antenna pattern test to determine beam width and secondary beams and angles of the measurement beam

Results:

Remarks:

- c. Equivalent isotropic radiated power (EIRP) (optional)

Results:

Remarks:

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

d. Minimum and maximum of distance measurement (if applicable)

Results:

Remarks:

e. 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-dd
		Time:		hh:mm:ss

Specific tests:

- a. Vehicle shape does not significantly affect the speed measurement

Results:

Remarks:

- b. Pulse repetition rate or another characteristic of the time intervals between the pulses

Results:

Remarks:

- c. Beam width, secondary beams and relevant characteristics of the field of view (divergence etc.)

Results:

Remarks:

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

d. The exit angle of measurement beam, if applicable,

Results:

Remarks:

e. Influence of curve radius

Results:

Remarks:

Result:

Pass ☐ Fail ☐

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

Application no.:		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 time synchronisation mechanism,

Results:

Remarks:

- b. that MPE for time measurement is fulfilled when vehicle detection and image recording are included,

Results:

Remarks:

- c. maximum size of detection field, even at varying speeds, and

Results:

Remarks:

- d. minimum distance between entry and exit point.

Results:

Remarks:

Result:

Pass ☐ Fail ☐

4.4 Fixed-distance speed meters (OIML R 91-2, 7.4)

Application no.:

Type designation:

Observer:

At start

At end

Temp.:

--	--

°C

Rel. h.:

--	--

%

Date:

--	--

yyyy-mm-dd

Time:

--	--

hh:mm:ss

Specific tests:

a. accuracy of trigger point, and

Results:

Remarks:

b. minimum and maximum distance between trigger points.

Results:

Remarks:

Result:

Pass

☐

Fail

☐

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

Application no.:

Type designation:

Observer:

At start

At end

Temp.:

--	--

°C

Rel. h.:

--	--

%

Date:

--	--

yyyy-mm-dd

Time:

--	--

hh:mm:ss

Specific tests:

a. accuracy of trigger point, and

Results:

Remarks:

b. minimum and maximum distance between trigger points.

Results:

Remarks:

c. minimum illumination and fog

Results:

Remarks:

Result:

Pass

☐

Fail

☐

4.6 Across-the-road speed meters (OIML R 91-2, 7.6)

Application no.:

Type designation:

Observer:

At start

At end

Temp.:

--	--

°C

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 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.:
Type designation:
Observer:

.....
.....
.....
.....

At startAt end

Temp.:
Rel. h.:
Date:
Time:

°C

%

yyyy-mm-dd

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 test of the ego speed meter (OIML R 91-2, 7.7.2)

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At start

At end

Temp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
hh:mm:ss

Results:

Measurement No.	v_{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 for moving speed meters (OIML R 91-2, 7.7.3)

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

Results:

Stationary mode

Measurement No.	v_{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						

Remarks:

Result:

Pass ☐ Fail ☐

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

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

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At startAt end

Temp.:
Rel. h.:
Date:
Time:

°C

%

yyyy-mm-dd

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.:
.....
Type designation:
.....
Observer:
.....
.....

At startAt end

Temp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
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			

Remarks:

Result:

Pass☐

Fail☐

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

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At startAt end

Temp.:
Rel. h.:
Date:
Time:

°C
%
yyyy-mm-dd
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			

Remarks:

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

#	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			

Remarks:

Result:

Pass

☐

Fail

☐

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

Application no.:
.....
Type designation:
.....
Observer:
.....
.....

At start

At end

Temp.:
Rel. h.:
Date:
Time:

°C

%

yyyy-mm-dd

hh:mm:ss

Results:

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

Remarks:

Result:

Passed ☐ Failed ☐

General remarks

Additional remarks: