

FINAL DRAFT  
RECOMMENDATION

TC 7/SC 5/p 1  
(AU + CA)



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Revision of R 129

**Multi-dimensional measuring instruments**  
**Part 3: Test report format**

(Clean version)

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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 129-3, Edition 202x - was developed by Project Group 1 of OIML TC 7/SC 5 *Dimensional Measuring Instruments*. It was approved for final publication by the International Committee of Legal Metrology in 202x. It supersedes the previous edition dated 2000.

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## Introduction

The “Test report format”, the subject of OIML R 129-3, aims at presenting, in a standardized format, the results of the various tests and examinations to which a type of a multi-dimensional measuring instrument 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 129-2).

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 multi-dimensional measuring instrument according to OIML R 129-1 and -2 or to national or regional regulations based on OIML R 129-1 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

Meaning of symbols used in this report

$L$	= Indicated length
$W$	= Indicated width
$H$	= Indicated height
$L_T$	= Length of the test object
$\Delta L$	= Error, $L - L_T$
$W_T$	= Width of the test object
$\Delta W$	= Error, $W - W_T$
$H_T$	= Height of the test object
$\Delta H$	= Error, $H - H_T$
mpe	= Maximum permissible error
$V$	= The volume indicated on the instrument
$V_{calc}$	= $L \times W \times H$
$F$	= Conversion factor
DW	= The dimensional weight indicated on the instrument
DWcalc	= $V \times F$
SF	= Significant fault

## 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:	2014-10-15	2014-10-15	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.

"ID" refers to the identity of the test object used (e.g. unique identifying number) and is entered in the appropriate columns as required.



**Identification of the instrument**

Application no.:	.....	Type designation:	.....
Identification no.:	.....	Manufacturer:	.....
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	Issue level	Serial no.
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....

Simulator documentation (if applicable)

System or module name	Drawing number or software reference	Issue level	Serial no.
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....

**Identification of the instrument (continued)**

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

Simulator function (summary) (if applicable)

(Simulator description and drawings, block diagram, etc. should be attached to the report if available)

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**Identification of the instrument (continued)**

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

**Physical description of the instrument**

Describe, using point form, the physical construction of the MDMI (materials, configuration and location of components, interfaces and communications ports). Attach photographs, diagrams or drawings if available:

Describe, using point form, the measurement technology used (include details such as physical contact method; laser class, power and wavelength; ultrasonic frequency; or camera spectrum):

## General information concerning the type

Application no.: ..... Manufacturer: .....  
 Type designation: ..... Applicant: .....  
 Instrument category: .....

Parameter limits		
	Minimum	Maximum
Temperature limits (°C)		
Speed limitations (m/s)		
Voltage (V)		
Minimum spacing		/

Limitation	Check if applicable
<b>Object</b>	
Cuboidal	
Irregular	
Singulated	
Non-singulated, non-touching	
Touching	
<b>Measurement dynamics</b>	
Static measurement only	
Fixed Speed	
Variable Speed	
Unidirectional	
Bidirectional	
<b>Installation</b>	
Permanent	
Mobile	
<b>Power Supply</b>	
AC	
AC-DC converter	
Battery	
DC	

Evaluation period: .....

Date of report: .....

Observer: .....

**General information concerning the type (continued)**

Application no.: ..... Manufacturer: .....  
 Type designation: ..... Applicant: .....  
 Instrument category: .....

**Scale Interval and limits of indication**

Axis	Unit of measurement	Scale interval ( $d$ )	Minimum dimension	Maximum dimension
X				
Y				
Z				

Describe, using point form, each axis and its relation to the physical object being measured and/or the MDMI itself:

Use this space to describe, using point form, any other use or installation limitations not detailed in the above on the previous page (such as special applications other than postage, freight or storage; restrictions on object material, texture, reflectivity or colour; object positioning):

Use this space to indicate additional remarks and/or information: connecting equipment, interfaces, choice of the manufacturer regarding protection against disturbances, etc.

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**General information concerning the type (continued)**

Application no.:	.....	Manufacturer:	.....
Type designation:	.....	Applicant:	.....
Instrument category:	.....		

**Indications and controls**

Describe, using point form, all indications and controls of the instrument (such as wired or wireless communication with instrument; zero method; ready indication, computed quantities, error codes). Describe each measurement (*L*, *W*, and *H*) and its relation to the physical object being measured and/or the MDMI itself:

**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 this is sealed:

**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:

### Information concerning the test equipment used for testing

Application no.:

Type designation:

Report date:

Manufacturer:

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

[illegible]

## Configuration for test

Application no.: ..... Type designation: .....  
 Report date: ..... Manufacturer: .....

Use this space for additional information relating to equipment configuration, interfaces, data rates, EMC protection options etc., for the instrument and/or simulator.

## Calibration information

### Calibration principle

--

Calibration number	GT1	GT2	etc*
Version number:			
Displayed name:			
Date submitted:			
Date submitted:			

### Regression information -

Approx number of data points:			
Data sources, date range			
Reference method(s):			
Other validation result (e.g. SD, SEP)			
Default slope (if applic):			
Default bias (if applic):			
Other characteristic:			

\*Copy table into additional pages if more than two calibrations are submitted for examination

### Comments:

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**Adjustments or modifications**

Application no.:	.....	Type designation:	.....
Report date:	.....	Manufacturer:	.....

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

Application no.: .....

Type designation: .....

Report date: .....

Manufacturer: .....

Section	Test	Report Page	Pass	Fail	Remarks
2.2	Instrument warm up time (A.1.1)				
2.3	Repeatability (A.1.2)				
2.4	Static temperatures (A.2.1)				
2.4.1	Initial reference temperature = °C				
2.4.2	High temperature = °C				
	Low temperature = °C				
2.4.3	End reference temperature = °C				
2.5	Damp heat (A.2.2)				
2.5.1	Steady State (non-condensing) (A.2.2.1)				
2.5.1.1	Initial reference temperature and 50 % relative humidity				
2.5.1.2	High temperature and 85 % relative humidity				
2.5.1.3	End reference temperature and 50 % relative humidity				
2.5.2	Cyclic (condensing) (A.2.2.2)				
2.5.2.1	DH cyclic				
2.6	AC mains voltage variation (A.2.3)				
2.6.1	Nominal voltage				
2.6.2	Nominal voltage + 10 %				
2.6.3	Nominal voltage - 15 %				
2.7	Low voltage of internal battery (A.2.4)				
2.7.1	Nominal voltage				
2.7.2	Low voltage				
2.7.3	90 % of minimum voltage				
2.8	AC mains voltage dips, short interruptions and reductions (A.3.1)				
2.9	Electrical bursts test (A.3.2)				
2.9.1	Power supply lines				
2.9.2	Input/output control circuits and communication lines				
2.10	Electrostatic discharge (A.3.3)				
2.10.1	Direct application				
2.10.2	Indirect application				
2.10.3	Additional Sheet				
2.11	Electrical surges (A.3.4)				
2.11.1	Surges on AC mains power lines (A.3.4.1)				
2.11.1.1	AC surge voltage at 0°				
2.11.1.2	AC surge voltage at 90°				
2.11.1.3	AC surge voltage at 180°				
2.11.1.4	AC surge voltage at 270°				
2.11.2	Surges on signal, data and control lines (A.3.4.2)				
2.12	Immunity to RF Electromagnetic fields (A.3.5)				
2.12.1	Radiated RF electromagnetic fields (A.3.5.1)				
2.12.2	Conducted RF electromagnetic fields (A.3.5.2)				
2.12.3	Additional Sheet				
2.13	Ambient light (A.4.1)				
2.13.1	200 lx to 500 lx (reference)				
2.13.2	100 lx				
2.13.3	1000 lx to 1500 lx				
2.13.4	Other intensity _____ lx				
2.13.5	Additional Sheet				
2.14	Acoustics (A.4.2)				
2.14.1	Reference sound level (_____ dB)				
2.14.2	Sound Level 100 dB				
2.14.3	Additional Sheet				
2.15	Shape of the object (A.1.6)				
2.16	Uniform surface colour test (A.1.6)				
2.17	Non uniform surface colour test (A.1.6)				
2.18	Contrast of colour with background colour test (A.1.6)				
2.19	Surface reflectivity and absorption of sound test (A.1.6)				
2.20	Surface reflectivity and absorption of colour test (A.1.6)				
2.21	Uniformity of density test (A.1.6)				
2.22	Transparency test (A.1.6)				
2.23	Surface roughness test (A.1.6)				
2.24	Protrusions on the surface test (A.1.6)				
2.25	Orientation and position test (A.1.6)				
2.26	Speed of relative movement test (A.1.6)				
2.26.1	Minimum speed				
2.26.2	Maximum speed				
2.27	Examination of the construction of the instrument (R129-1, clause 5.1.2)				

**2.2 Instrument warm up time (A.1.1)**

Observer: .....

Type/ application #: .....

Instrument 1 ID: .....

Instrument 2 ID: .....

General comments on test:

Ambient temp (t):

Ambient RH:

Date commenced:

Time commenced:

Not warm	Warm	
		°C
		%
		ddmmyyyy
		hh:mm

Instrument 1, close to minimum dimensions

Instrument ID Length =   
unit= Width =   
unit= Height =   
unit= 

Instrument 2, close to maximum dimensions

Instrument ID Length =   
unit= Width =   
unit= Height =   
unit= 

Instrument 1 (close to minimum dimensions)					Instrument ID <input type="text"/>				
Time	Initial zeroing/Ready state	$L$	$\Delta L$	$W$	$\Delta W$	$H$	$\Delta H$	mpe	Pass/Fail
(units)	(Yes/No)								
0 minutes									
5 minutes									
15 minutes									
30 minutes									

Instrument 2 (close to maximum dimensions)					Instrument ID <input type="text"/>				
Time	Initial zeroing/Ready state	$L$	$\Delta L$	$W$	$\Delta W$	$H$	$\Delta H$	mpe	Pass/Fail
(units)	(Yes/No)								
0 minutes									
5 minutes									
15 minutes									
30 minutes									

**Remarks****RESULT :****PASS****FAIL**

**2.3 Repeatability (A.1.2)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) : .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device :      Connected      ☐      Not connected      ☐      Not connected      ☐  
    but connectable

Correct indication of ancillary device      ☐ (yes/no)

Conveyor Speed (m/min):      minimum      ☐      maximum      ☐      other      ☐

Test object ID	<div></div>	Length = unit=	<div></div>	Width = unit=	<div></div>	Height = unit=	<div></div>	Initial zeroing (Ready condition)	<div></div>	yes no		
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	Vcalc	DW	DWcalc	Pass/Fail
1												
2												
3												

Test object ID	<div></div>	Length =	<div></div>	Width =	<div></div>	Height =	<div></div>	Initial zeroing (Ready condition)		<div></div>	yes	
		unit=	<div></div>	unit=	<div></div>	unit=	<div></div>				no	
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	V	Vcalc	DW	DWcalc	Pass/Fail
1												
2												
3												

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no		
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	V	Vcalc	DW	DWcalc	Pass/Fail
1												
2												
3												

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no		
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	V	Vcalc	DW	DWcalc	Pass/Fail
1												
2												
3												

Test object ID	<div></div>	Length = unit= <div></div>	Width = unit= <div></div>	Height = unit= <div></div>	Initial zeroing (Ready condition)		<div></div>	yes no				
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	V	Vcalc	DW	DWcalc	Pass/Fail
1												
2												
3												

**Remarks****RESULT:****PASS**☐**FAIL**☐

**2.4 Static temperatures (A.2.1)****2.4.1 Initial Reference temperature (A.2.1)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (*d*):Conversion Factor (*F*):

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device :

Connected ☐Not connected  
but connectable☐

Not connected

☐Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min):

minimum ☐maximum ☐other ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	Dwcalc	Pass/Fail
1													
2													
3													
4													
5													

**Remarks****RESULT:****PASS**
☐
**FAIL**
☐

**2.4 Static temperatures (A.2.1)****2.4.2 High and low temperatures**

Observer: \_\_\_\_\_

Type/ application #: \_\_\_\_\_

Instrument ID: \_\_\_\_\_

Scale Interval (*d*): \_\_\_\_\_

Conversion Factor (*F*): \_\_\_\_\_

Ancillary Device :      Connected ☐      Not connected ☐      Not connected but connectable ☐      Not connected ☐

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min):      minimum ☐      maximum ☐      other ☐

	At start	At end
Temp (°C)	<input type="text"/>	<input type="text"/>
RH (%)	<input type="text"/>	<input type="text"/>
Time	<input type="text"/>	<input type="text"/>
Date	<input type="text"/>	<input type="text"/>

Test Object ID	Length (units)	Width (units)	Height (units)
1	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	High temperature	Pass/Fail
												Dwcalc	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	Low temperature	Pass/Fail
												Dwcalc	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Remarks****RESULT:****PASS** ☐**FAIL** ☐

**2.4 Static temperatures (A.2.1)****2.4.3 Reference temperature (A.2.1)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval ( $d$ ): .....  
 Conversion Factor ( $F$ ): .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device :      Connected      ☐      Not connected but connectable      ☐      Not connected      ☐

Correct indication of ancillary device      ☐ (yes/no)

Conveyor Speed (m/min):      minimum      ☐      maximum      ☐      other      ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	$L$	$\Delta L$	$W$	$\Delta W$	$H$	$\Delta H$	mpe	$V$	$V_{calc}$	DW	Dwcalc	Pass/Fail
1													
2													
3													
4													
5													

**Remarks****RESULT:****PASS**☐**FAIL**☐

**2.5 Damp heat (A.2.2)****2.5.1 Steady state (non-condensing)****2.5.1.1 Initial reference temperature and 50 % relative humidity (A.2.2.1)**

Observer: .....

Type/ application #: .....

Instrument ID: .....

Scale Interval (*d*): .....Conversion Factor (*F*): .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device : Connected ☐Not connected  
but connectable ☐Not connected ☐Correct indication of ancillary device ☐ (yes/no)Conveyor Speed (m/min): minimum ☐maximum ☐other ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	Dw <sub>calc</sub>	Pass/Fail
1													
2													
3													
4													
5													

**Remarks****RESULT:****PASS**☐**FAIL**☐



**2.5.1.2 High temperature and 85 % relative humidity (A.2.2.1)**

Observer: .....

Type/ application #: .....

Instrument ID: .....

Scale Interval (*d*): .....Conversion Factor (*F*): .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device :      Connected ☐      Not connected ☐      Not connected but connectable ☐

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min):    minimum ☐    maximum ☐    other ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	Dw <sub>calc</sub>	Pass/Fail
1													
2													
3													
4													
5													

Remarks

RESULT:

PASS

☐

FAIL

☐

**2.5.1.3 End reference temperature and 50 % relative humidity (A.2.2.1)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval ( $d$ ): .....  
 Conversion Factor ( $F$ ): .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device :      Connected ☐      Not connected ☐      Not connected but connectable ☐

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min):    minimum ☐    maximum ☐    other ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	$L$	$\Delta L$	$W$	$\Delta W$	$H$	$\Delta H$	mpe	$V$	$V_{calc}$	DW	Dwcalc	Pass/Fail
1													
2													
3													
4													
5													

**Remarks****RESULT:****PASS**☐**FAIL**☐

**2.5 Damp heat (A.2.2)****2.5.2 Cyclic (condensing)****2.5.2.1 Damp heat cyclic (A.2.2.2)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (*d*): .....  
 Conversion Factor (*F*): .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device :      Connected ☐      Not connected but connectable ☐      Not connected ☐

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min):    minimum ☐      maximum ☐      other ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	Indication			SF > d	SF*	Ref Temp (°C)		Comment
		L	W	H			Result		
1					Y/N	Y/N	PASS/FAIL		
2									
3									
4									
5									

Damp heat, cyclic (24 h x 2 cycles)

Test Object ID	Initial zeroing (yes/no)	Indication			SF > d	SF*	Ref Temp (°C)		Comment
		L	W	H			Result		
1					Y/N	Y/N	PASS/FAIL		
2									
3									
4									
5									

1. SF\* - Significant Fault detected and acted upon.

**Remarks**

RESULT:      PASS ☐      FAIL ☐

**2.6 AC mains voltage variation (A.2.3)****2.6.1 Nominal Voltage (A.2.3)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) : .....

	At start	At end
Temp (°C)		
RH (%)		
Nominal Voltage (V)		
Time		
Date		

Ancillary Device :      Connected ☐      Not connected ☐      Not connected ☐  
    but connectable

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min):    minimum ☐      maximum ☐      other ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	V	Vcalc	DW	Dwcalc	Pass/Fail
1													
2													
3													
4													
5													

**Remarks****RESULT:****PASS**☐**FAIL**☐

**2.6.2 Nominal Voltage -15 % (A.2.3)**

Observer: .....

Type/ application #: .....

Instrument ID: .....

Scale Interval (*d*): .....Conversion Factor (*F*): .....

Temp (°C)  
 RH (%)  
 Nominal Voltage + 10% (V)  
 Time  
 Date

At start At end


Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	DW <sub>calc</sub>	Pass/Fail
1													
2													
3													
4													
5													

Remarks

RESULT:

PASS

FAIL

**2.6.3 Nominal Voltage +10 % (A.2.3)**

Observer: .....

Type/ application #: .....

Instrument ID: .....

Scale Interval (*d*): .....Conversion Factor (*F*): .....

Temp (°C)  
RH (%)  
Nominal Voltage - 15% (V)  
Time  
Date

At start    At end


Ancillary Device :      Connected    Not connected  
but connectable    Not connected    Correct indication of ancillary device     (yes/no)Conveyor Speed (m/min):    minimum    maximum    other    

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	Dw <sub>calc</sub>	Pass/Fail
1													
2													
3													
4													
5													

**Remarks****RESULT:****PASS**

**FAIL**

**2.7 Low voltage of internal battery (A.2.4)****2.7.1 Nominal Voltage (A.2.4)**

Observer: .....

Type/ application #: .....

Instrument ID: .....

Scale Interval (*d*): .....Conversion Factor (*F*): .....

	At start	At end
Temp (°C)		
RH (%)		
Marked Nominal Voltage (V)		
Time		
Date		

Ancillary Device :

Connected

☐Not connected  
but connectable☐Not  
connected☐

Correct indication of ancillary device

☐ (yes/no)

Conveyor Speed (m/min):

minimum

☐

maximum

☐

other

☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	Dw <sub>calc</sub>	Pass/Fail
1													
2													
3													
4													
5													

Remarks

RESULT:

PASS

☐

FAIL

☐

**2.7.2 Low Voltage (A.2.4)**

Observer: .....

Type/ application #: .....

Instrument ID: .....

Scale Interval (*d*): .....Conversion Factor (*F*): .....

Temp (°C)

RH (%)

Low Voltage (V)

Time

Date

At start At end


Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	DW <sub>calc</sub>	Pass/Fail
1													
2													
3													
4													
5													

**Remarks****RESULT:****PASS****FAIL**



**2.7.3 90 % of minimum voltage (A.2.4)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (*d*):Conversion Factor (*F*):

Temp (°C)

RH (%)

Low Voltage (V)

Time

Date

At start At end

Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial zeroing (yes/no)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	<i>V</i>	<i>V</i> <sub>calc</sub>	DW	DW <sub>calc</sub>	Pass/Fail
1													
2													
3													
4													
5													

Remarks

RESULT:

PASS

FAIL

**2.8 AC mains voltage dips, short interruptions and reductions (A.3.1)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

Temp (°C)

RH (%)

Time

Nominal Voltage (V)

Date

At start

At end

Ancillary Device : Connected

Not connected

Not connected

Correct indication of ancillary device

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID	Length = unit=	Width = unit=	Height = unit=	Initial zeroing (Ready condition)	yes no
----------------	-------------------	------------------	-------------------	--------------------------------------	-----------

**Instrument**

Reduction in amplitude to (as % marked nom voltage)	Duration* ( in cycles)	Number of disturbances ≥ 10	Time between disturbances ≥ 10 s	Indication			SF > d Y/N	SF* Y/N	Result PASS/FAIL	Commer
				L	W	H				
units										
0	0	0	–							
0	0.5									
0	1									
40	10/12									
70	25/30									
80	250/300									
0	250/300									

**Ancillary Device**

Anomaly Device										
Reduction in amplitude to (as % marked nom voltage)	Duration* ( in cycles)	Number of disturbances ≥ 10	Time between disturbances ≥ 10 s	Indication			SF > d	SF*	Result	Comments
				L	W	H				
units							Y/N	Y/N	PASS/FAIL	
0	0	0	–							
0	0.5									
0	1									
40	10/12									
70	25/30									
80	250/300									
0	250/300									

- Notes:**
1. SF\* - Significant Fault detected and acted upon.
  2. amplitude\* - In case of a marked voltage range, use the average value as the marked nominal voltage.
  3. duration\* - values applicable for 50 Hz / 60 Hz respectively

**Remarks**

RESULT:

PASS

FAIL

**2.9 Electrical bursts (A.3.2)****2.9.1 Power supply lines (A.3.2)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) .....

Temp (°C) .....  
 RH (%) .....  
 Time .....  
 Nominal Voltage (V) .....  
 Date .....

At start	At end

Ancillary Device : Connected ☐ Not connected ☐ Not connected but connectable ☐ Not connected ☐

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min) minimum ☐ maximum ☐ other ☐

Test object ID <input type="text"/>	Length = <input type="text"/> unit= <input type="text"/>	Width = <input type="text"/> unit= <input type="text"/>	Height = <input type="text"/> unit= <input type="text"/>	Initial zeroing (Ready condition)	<input type="checkbox"/>	yes no
-------------------------------------	---	--	---	--------------------------------------	--------------------------	-----------

**Instrument**

	Instrument			Polarity	Results						
	L ↓ ground	N ↓ ground	PE ↓ ground		L	Indication W	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
Without disturbance X				pos neg							
Without disturbance X				pos neg							
Without disturbance X				pos neg							

**NOTES:** 1. SF \* - Significant fault detected and acted upon.  
 2. L = Phase, N = Neutral, PE = Protective Earth

**Ancillary device**

	Anomaly device			Polarity	Results						
	L	N	PE		L	Indication	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
	↓ ground	↓ ground	↓ ground			W					
Without disturbance	X			pos neg							
Without disturbance	X			pos neg							
Without disturbance	X			pos neg							

**NOTES:** 1. SF \* - Significant fault detected and acted upon.  
 2. L = Phase, N = Neutral, PE = Protective Earth

**Remarks**

**RESULT:** PASS ☐ FAIL ☐

**2.9.2 Input / Output circuits and communication lines (A.3.2)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) : .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Nominal Voltage (V)		
Date		

Ancillary Device :      Connected ☐      Not connected ☐      Not connected but connectable ☐      Not connected ☐

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min):      minimum ☐      maximum ☐      other ☐

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>
		Initial zeroing (Ready condition)	<input type="text"/>	yes no			

Connection	Polarity	Results						
Cable / Interface		<i>L</i>	Indication <i>W</i>	<i>H</i>	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
Without disturbance	pos neg							
Without disturbance	pos neg							
Without disturbance	pos neg							
Without disturbance	pos neg							
Without disturbance	pos neg							
Without disturbance	pos neg							
Without disturbance	pos neg							

**NOTES:** 1. SF \* - Significant fault detected and acted upon.

**Remarks:**

(Explain or make a sketch indicating the location of clamp on the cable.)

**RESULT:****PASS**☐**FAIL**☐

**2.10 Electrostatic discharge (A.3.3)****2.10.1 Direct Application (A.3.3)**

Observer: .....

Type/ application #: .....

Instrument ID: .....

Scale Interval (d): .....

Conversion Factor (F): .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Nominal Voltage (V)		
Date		

Ancillary Device :	Connected	<input type="text"/>	Not connected but connectable	<input type="text"/>	Not connected	<input type="text"/>
Correct indication of ancillary device	<input type="text"/>	(yes/no)				
Conveyor Speed (m/min):	minimum	<input type="text"/>	maximum	<input type="text"/>	other	<input type="text"/>
Contact discharges	<input type="text"/>		Air discharges	<input type="text"/>	Paint penetration	<input type="text"/>
			Polarity **	<input type="text"/>	positive	negative <input type="text"/>

Test object ID	Length = <input type="text"/>	Width = <input type="text"/>	Height = <input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
	unit= <input type="text"/>	unit= <input type="text"/>	unit= <input type="text"/>			

**Instrument**

Disturbance			Results						
Test Voltage (kV)	No. of discharges	Rep. interval (s)	Indication			SF > d	SF *	Result	Comment
	units		L	W	H	Y/N	Y/N	PASS/FAIL	
Without disturbance									
2									
4									
6									
8*									

**Note:** SF \* - Significant fault detected and acted upon.

**Ancillary device**

Disturbance			Results						
Test Voltage (kV)	No. of discharges	Rep. interval (s)	Indication			SF > d	SF *	Result	Comment
	units		L	W	H	Y/N	Y/N	PASS/FAIL	
Without disturbance									
2									
4									
6									
8*									

**Note:** SF \* - Significant fault detected and acted upon.

**Remarks:**

**NOTES:**  
 1. 8\* - Air discharges  
 2. If the EUT fails, record the test point at which the EUT fails.  
 3. Polarity \*\* - Tests shall be conducted at the most sensitive polarity.

**RESULT:** **PASS**  **FAIL**

**2.10.2 Indirect Application (A.3.3)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) : .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Nominal Voltage (V) .....

Ancillary Device :      Connected            Not connected but connectable            Not connected     

Correct indication of ancillary device       (yes/no)

Conveyor Speed (m/min):    minimum            maximum            other     

   Contact discharges            Air discharges            Paint penetration     

   Polarity \*\*       positive      negative     

Test object ID	Length = <input type="text"/> unit= <input type="text"/>	Width = <input type="text"/> unit= <input type="text"/>	Height = <input type="text"/> unit= <input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
----------------	---	--	---	--------------------------------------	----------------------	-----------

**Horizontal coupling plane**

Disturbance			Results						
Test Voltage (kV)	No. of discharges	Rep. interval (s)	Indication			SF > d	SF *	Result	Comment
	units		L	W	H	Y/N	Y/N	PASS/FAIL	
Without disturbance									
2									
4									
6									
8*									

**Note**      SF \* - Significant fault detected and acted upon.

**Vertical coupling plane**

Disturbance			Results						
Test Voltage (kV)	No. of discharges	Rep. interval (s)	Indication			SF > d	SF *	Result	Comment
	units		L	W	H	Y/N	Y/N	PASS/FAIL	
Without disturbance									
2									
4									
6									
8*									

**Note**      SF \* - Significant fault detected and acted upon.

**Remarks:****NOTES:**

1. 8\* - Air discharges
2. If the EUT fails, record the test point at which the EUT fails.
3. Polarity \*\* - Tests shall be conducted at the most sensitive polarity.

RESULT:

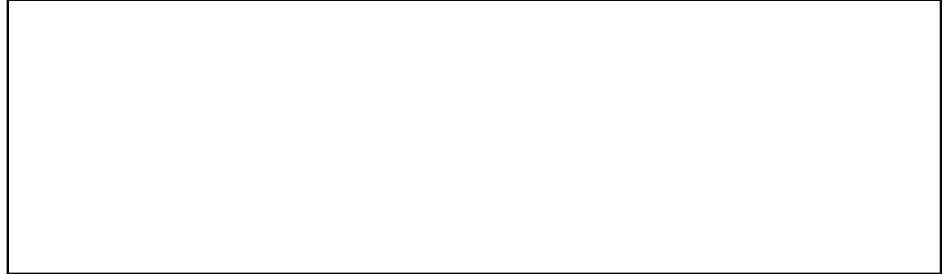
PASS

FAIL


---

**2.10.3 Electrostatic discharge additional sheet (A.3.3)****Specifications of test points of EUT (eg) photos or sketches****a) Direct application**

Contact discharges:



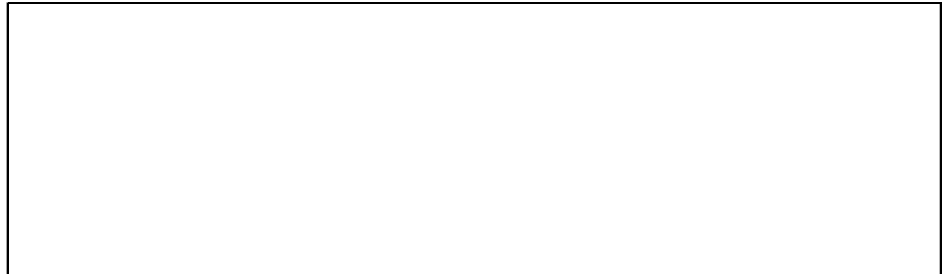
Air discharges:

**b) Indirect application**

Contact discharges:



Air discharges:



**2.11 Electrical surges (A.3.4)****2.11.1 Surges on AC mains****2.11.1.1 AC surge voltage at 0° (A.3.4.1)**

Type/ application #: \_\_\_\_\_  
 Instrument ID: \_\_\_\_\_  
 Scale Interval (d): \_\_\_\_\_  
 Conversion Factor (F): \_\_\_\_\_

At start      At end  
 Temp (°C) \_\_\_\_\_  
 RH (%) \_\_\_\_\_  
 Time \_\_\_\_\_  
 Nominal Voltage (V) \_\_\_\_\_  
 Date \_\_\_\_\_

Ancillary Device :      Connected ☐      Not connected ☐      Not connected but connectable ☐  
 Correct indication of ancillary device ☐ (yes/no)  
 Conveyor Speed (m/min):    minimum ☐      maximum ☐      other ☐

Test object ID	Length = unit=	Width = unit=	Height = unit=	Initial zeroing (Ready condition)	yes no
----------------	-------------------	------------------	-------------------	--------------------------------------	-----------

**AC surge voltage at 0°****Instrument**

Connection	Mode	Results						
Test conditions		L	Indication W	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
No Surge (reference condition)								
Positive	L-L							
Negative	L-L							
Positive	N-PE							
Negative	N-PE							
Positive	L-PE							
Negative	L-PE							
Positive	L2-PE							
Negative	L2-PE							

**Ancillary Devices**

Mode	Results						
	L	Indication W	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
No Surge (reference condition)							
Positive	L-L						
Negative	L-L						
Positive	N-PE						
Negative	N-PE						
Positive	L-PE						
Negative	L-PE						
Positive	L2-PE						
Negative	L2-PE						

1. SF \* - Significant fault detected and acted upon.
2. L-L - Line to Line Surge
3. N-PE - Neutral to Protective Earth Surge
4. L-E - Line to Protective Earth Surge
5. L2-E - Line2 to Protective Earth Surge

**Remarks:**

RESULT:      PASS ☐

FAIL ☐



**2.11.1.2 AC surge voltage at 90° (A.3.4.1)**

Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) : .....

Temp (°C) At start At end  
 RH (%)  
 Time  
 Nominal Voltage (V)  
 Date

Ancillary Device : Connected ☐ Not connected ☐ Not connected but connectable ☐ Not connected ☐

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min): minimum ☐ maximum ☐ other ☐

Test object ID	Length = unit=	Width = unit=	Height = unit=	Initial zeroing (Ready condition)	yes no
----------------	-------------------	------------------	-------------------	--------------------------------------	-----------

**AC surge voltage at 90°****Instrument**

Connection	Mode	Results						
Test conditions		L	Indication W	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
No Surge (reference condition)								
Positive	L-L							
Negative	L-L							
Positive	N-PE							
Negative	N-PE							
Positive	L-PE							
Negative	L-PE							
Positive	L2-PE							
Negative	L2-PE							

**Ancillary Devices**

Mode	Results						
	L	Indication W	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
No Surge (reference condition)							
Positive	L-L						
Negative	L-L						
Positive	N-PE						
Negative	N-PE						
Positive	L-PE						
Negative	L-PE						
Positive	L2-PE						
Negative	L2-PE						

1. SF \* - Significant fault detected and acted upon.
2. L-L - Line to Line Surge
3. N-PE - Neutral to Protective Earth Surge
4. L-E - Line to Protective Earth Surge
5. L2-E - Line2 to Protective Earth Surge

**Remarks:**

RESULT: PASS ☐

FAIL ☐

**2.11.1.3 AC surge voltage at 180° (A.3.4.1)**

Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F): .....

Temp (°C) At start At end  
 RH (%)  
 Time  
 Nominal Voltage (V)  
 Date

Ancillary Device : Connected ☐ Not connected ☐ Not connected ☐  
 Correct indication of ancillary device ☐ (yes/no)  
 Conveyor Speed (m/min): minimum ☐ maximum ☐ other ☐

Test object ID	Length = unit=	Width = unit=	Height = unit=	Initial zeroing (Ready condition)	yes no
----------------	-------------------	------------------	-------------------	--------------------------------------	-----------

**AC surge voltage at 180°****Instrument**

Connection	Mode	Results						
Test conditions		L	Indication W	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
No Surge (reference condition)								
Positive	L-L							
Negative	L-L							
Positive	N-PE							
Negative	N-PE							
Positive	L-PE							
Negative	L-PE							
Positive	L2-PE							
Negative	L2-PE							

**Ancillary Devices**

Mode	Results						
	L	Indication W	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
No Surge (reference condition)							
Positive	L-L						
Negative	L-L						
Positive	N-PE						
Negative	N-PE						
Positive	L-PE						
Negative	L-PE						
Positive	L2-PE						
Negative	L2-PE						

1. SF \* - Significant fault detected and acted upon.
2. L-L - Line to Line Surge
3. N-PE - Neutral to Protective Earth Surge
4. L-E - Line to Protective Earth Surge
5. L2-E - Line2 to Protective Earth Surge

**Remarks:**

RESULT: PASS ☐

FAIL ☐

**2.11.1.4 AC surge voltage at 270° (A.3.4.1)**

Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) : .....

Temp (°C) .....  
 RH (%) .....  
 Time .....  
 Date .....  
 Nominal Voltage (V) .....

Ancillary Device : Connected ☐ Not connected ☐ Not connected but connectable ☐  
 Correct indication of ancillary device ☐ (yes/no)  
 Conveyor Speed (m/min): minimum ☐ maximum ☐ other ☐

Test object ID	Length = unit=	Width = unit=	Height = unit=	Initial zeroing (Ready condition)	yes no
----------------	-------------------	------------------	-------------------	--------------------------------------	-----------

**AC surge voltage at 270°****Instrument**

Connection	Mode	Results						
Test conditions		L	Indication W	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
No Surge (reference condition)								
Positive	L-L							
Negative	L-L							
Positive	N-PE							
Negative	N-PE							
Positive	L-PE							
Negative	L-PE							
Positive	L2-PE							
Negative	L2-PE							

**Ancillary Devices**

Mode	Results						
	L	Indication W	H	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
No Surge (reference condition)							
Positive	L-L						
Negative	L-L						
Positive	N-PE						
Negative	N-PE						
Positive	L-PE						
Negative	L-PE						
Positive	L2-PE						
Negative	L2-PE						

1. SF \* - Significant fault detected and acted upon.
2. L-L - Line to Line Surge
3. N-PE - Neutral to Protective Earth Surge
4. L-E - Line to Protective Earth Surge
5. L2-E - Line2 to Protective Earth Surge

**Remarks:**

RESULT: PASS ☐

FAIL ☐

**2.11 Electrical surges (A.3.4)****2.11.2 Surges on signal, data and control lines (A.3.4.2)**

Observer: .....

Type/ application #: .....

Instrument ID: .....

Scale Interval (*d*): .....Conversion Factor (*F*): .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Nominal Voltage (V)		
Date		

Ancillary Device :      Connected ☐      Not connected but connectable ☐      Not connected ☐

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min):      minimum ☐      maximum ☐      other ☐

Test object ID	Length = unit=	Width = unit=	Height = unit=	Initial zeroing (Ready condition)	yes no
----------------	-------------------	------------------	-------------------	--------------------------------------	-----------

Connection	Mode	Results						
Test conditions		<i>L</i>	Indication <i>W</i>	<i>H</i>	SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
No Surge (reference condition)								
Positive	L-L							
	L-L							
	L-L							
Negative	L-L							
	L-L							
	L-L							
Positive	L-E							
	L-E							
	L-E							
Negative	L-E							
	L-E							
	L-E							

1. SF \* - Significant fault detected and acted upon.
2. L-L - Line to Line Surge
3. L-E - Line to Earth Surge

Remarks:

RESULT:      PASS      ☐FAIL      ☐

**2.12 Immunity to RF Electromagnetic fields (A.3.5)****2.12.1 Radiated RF electromagnetic fields (A.3.5.1)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

Temp (°C)

RH (%)

Time

Nominal Voltage (V)

Date

At start

At end

Ancillary Device :

Connected

Not connected

but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Rate of sweep:

Test object ID	Length = unit=	Width = unit=	Height = unit=	Initial zeroing (Ready condition)	yes no
----------------	-------------------	------------------	-------------------	--------------------------------------	-----------

Disturbance				Results						
Antenna	Frequency range	Antenna polarisation	Facing EUT	Indication			SF > d	SF *	Result	Comment
				L	W	H				
							Y/N	Y/N	PASS/FAIL	
Without disturbance										
		Vertical	Front							
			Right							
			Left							
			Rear							
Without disturbance										
		Horizontal	Front							
			Right							
			Left							
			Rear							

NOTES: 1. SF \* - Significant fault detected and acted upon.

Frequency range : 26 MHz to 2000 MHz

Field strength: 10 V/m

Modulation 80 % Am, 1 KHz sine wave

Remarks:

RESULT:

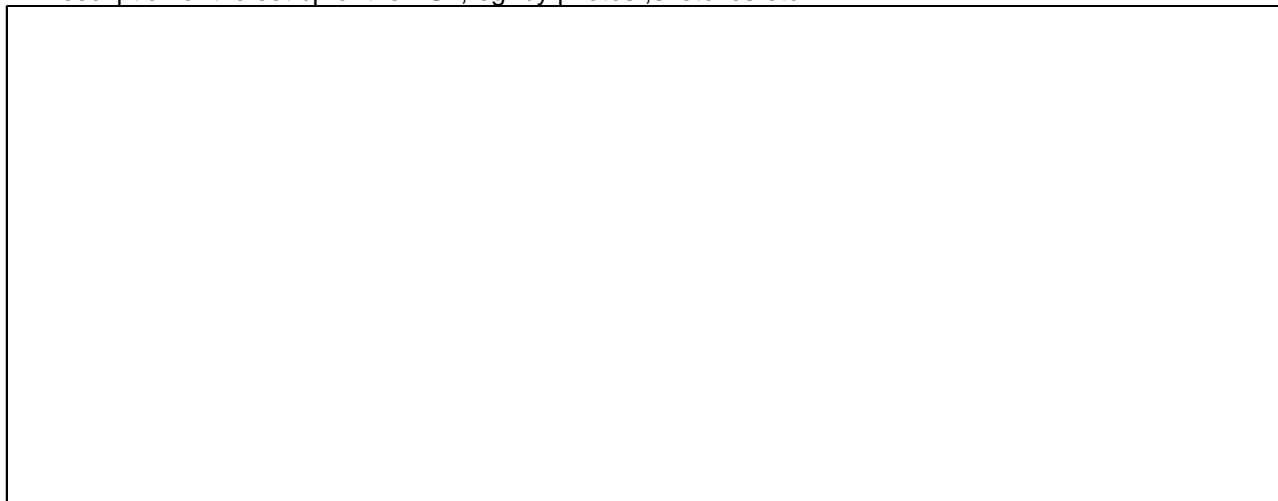
PASS

FAIL



**2.12.3 Additional Sheet**

1. Description of the set up of the EUT, eg. by photos ,sketches etc.



2. Additional Remarks



**2.13 Ambient light (A.4.1)****2.13.1 Reference conditions 200 lx to 500 lx (A.4.1)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) : .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Light (lx)		
Date		

Ancillary Device :                      Connected   ☐                      Not connected   ☐                      Not connected but connectable   ☐

Correct indication of ancillary device   ☐ (yes/no)

Conveyor Speed (m/min):                      minimum   ☐                      maximum   ☐                      other   ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial Zeroing (yes/no)	L (units)	$\Delta L$	W (units)	$\Delta W$	H (units)	$\Delta H$	mpe	Pass/Fail
1									
2									
3									
4									
5									

**Remarks****RESULT:****PASS**
☐
**FAIL**
☐



**2.13.2 Ambient light 100 lx (A.4.1)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) : .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Light (lx)		
Date		

Ancillary Device :                      Connected   ☐                      Not connected but connectable   ☐                      Not connected   ☐

Correct indication of ancillary device   ☐ (yes/no)

Conveyor Speed (m/min):                      minimum   ☐                      maximum   ☐                      other   ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial Zeroing (yes/no)	L (units)	$\Delta L$	W (units)	$\Delta W$	H (units)	$\Delta H$	mpe	Pass/Fail
1									
2									
3									
4									
5									

**Remarks****RESULT:****PASS**
☐
**FAIL**
☐

**2.13.3 Ambient light 1000 lx to 1500 lx (A.4.1)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval ( $d$ ): .....  
 Conversion Factor ( $F$ ): .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Light (lx)		
Date		

Ancillary Device :                      Connected   ☐                      Not connected but connectable   ☐                      Not connected   ☐

Correct indication of ancillary device   ☐ (yes/no)

Conveyor Speed (m/min):                      minimum   ☐                      maximum   ☐                      other   ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial Zeroing (yes/no)	$L$ (units)	$\Delta L$	$W$ (units)	$\Delta W$	$H$ (units)	$\Delta H$	mpe	Pass/Fail
1									
2									
3									
4									
5									

**Remarks****RESULT:****PASS**
☐
**FAIL**
☐

**2.13.4 Ambient light, other lx (A.4.1)**

Observer: \_\_\_\_\_  
 Type/ application #: \_\_\_\_\_  
 Instrument ID: \_\_\_\_\_  
 Scale Interval (*d*): \_\_\_\_\_  
 Conversion Factor (*F*): \_\_\_\_\_

	At start	At end
Temp (°C)		
RH (%)		
Time		
Light (lx)		
Date		

Ancillary Device :                      Connected ☐                      Not connected but connectable ☐                      Not connected ☐

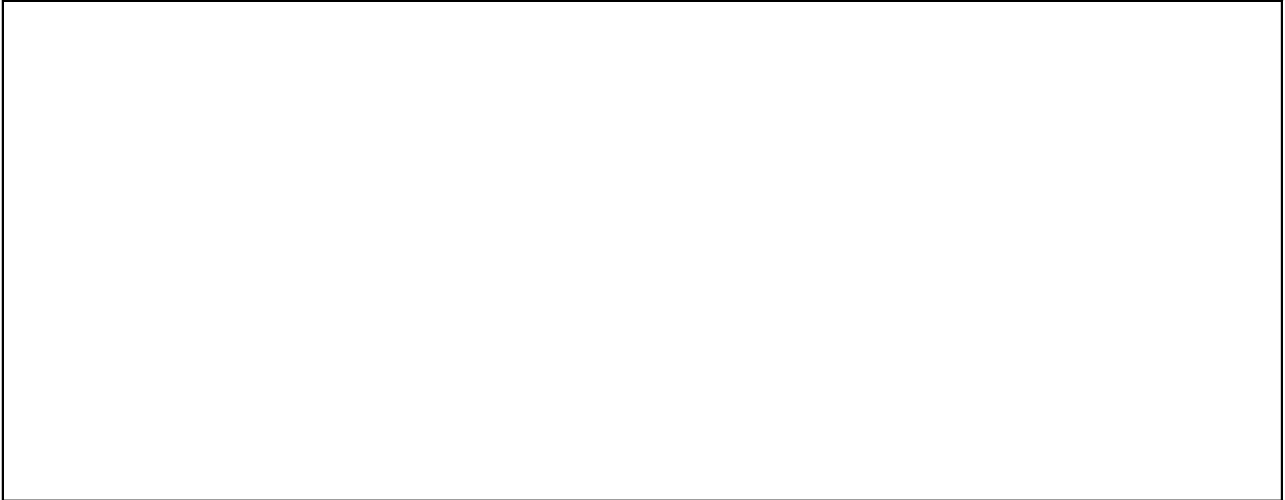
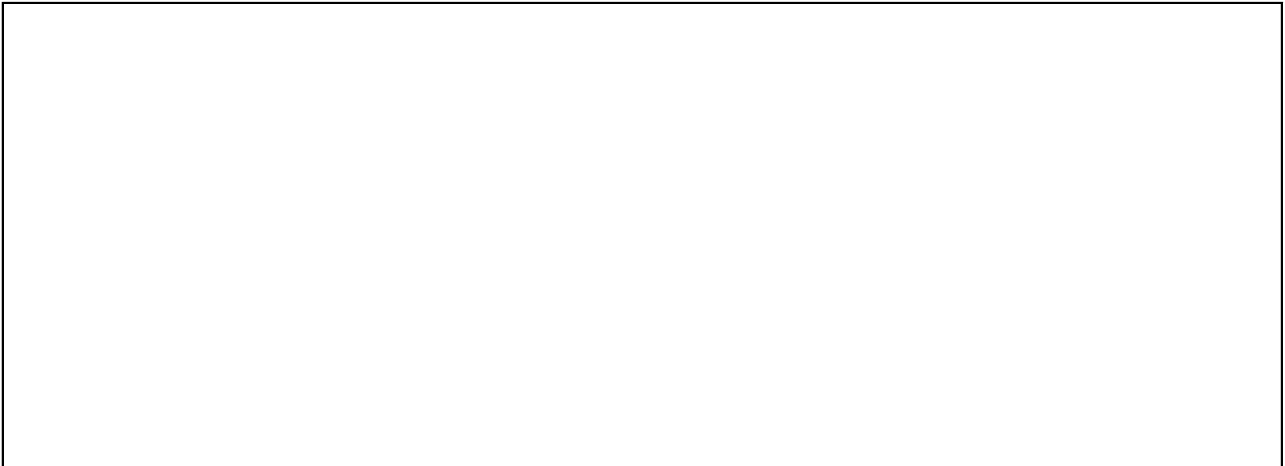
Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min):                      minimum ☐                      maximum ☐                      other ☐

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

Test Object ID	Initial Zeroing (yes/no)	<i>L</i> (units)	$\Delta L$	<i>W</i> (units)	$\Delta W$	<i>H</i> (units)	$\Delta H$	mpe	Pass/Fail
1									
2									
3									
4									
5									

**Remarks****RESULT:****PASS**☐**FAIL**☐

**2.13.5 Additional sheet (A.4.1)****1. Description of the set up of the EUT, eg. photos or sketches****2. Additional remarks**



### 2.14.2 100 dB sound level (dB) (A.4.2)

Observer: \_\_\_\_\_  
 Type/ application #: \_\_\_\_\_  
 Instrument ID: \_\_\_\_\_  
 Scale Interval ( $d$ ): \_\_\_\_\_  
 Conversion Factor ( $F$ ) \_\_\_\_\_

	At start	At end
Temp (°C)		
RH (%)		
Time		
Sound (dB)		
Date		

Ancillary Device :      Connected      ☐      Not connected but connectable      ☐      Not connected      ☐

Correct indication of ancillary device  (yes/no)

Conveyor Speed (m/min):      minimum       maximum       other

Test Object ID	Length (units)	Width (units)	Height (units)
1			
2			
3			
4			
5			

[illegible]

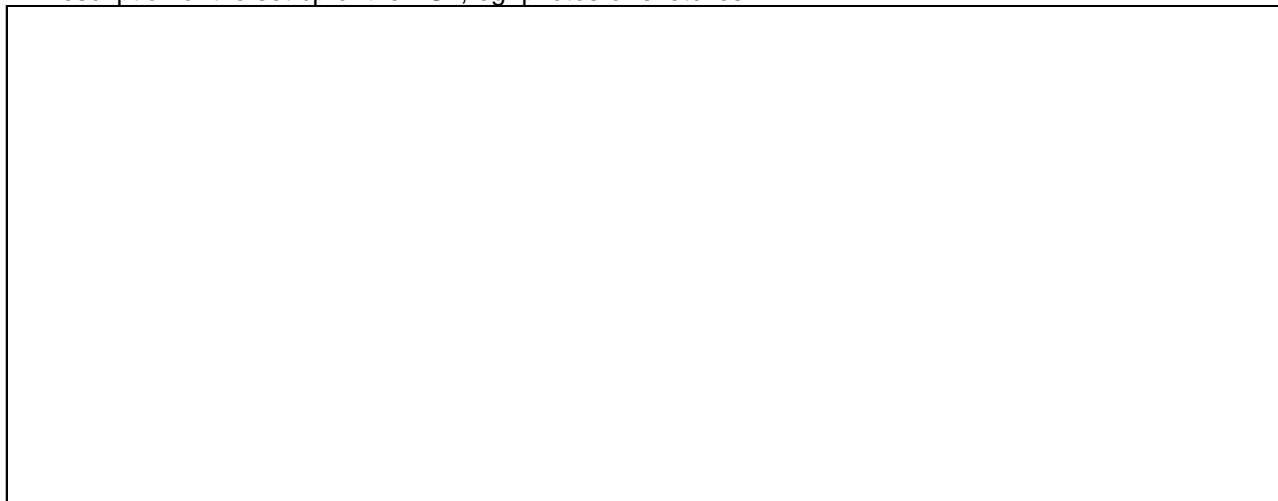
### Remarks

RESULT:                      PASS   ☐                      FAIL   ☐

---

### 2.14.3 Additional Sheet

#### 1. Description of the set up of the EUT, eg. photos or sketches



#### 2. Additional remarks



**2.15 Shape of the object (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start At end

Temp (°C)

RH (%)

Time

Date

Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe		Pass/Fail	
1										
2										
3										

Test object ID		Length = unit=			Width = unit=			Height = unit=		Initial zeroing (Ready condition)		yes
												no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail				
1												
2												
3												

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe		Pass/Fail	
1										
2										
3										

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe		Pass/Fail	
1										
2										
3										

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Remarks

RESULT:

PASS

FAIL



**2.16 Uniform surface colour (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start At end

Temp (°C)

RH (%)

Time

Date

Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

**Remarks**

--

**RESULT:****PASS****FAIL**

**2.17 Non uniform surface colour (A.1.6)**

Observer: .....  
 Type/ application #: .....  
 Instrument ID: .....  
 Scale Interval (d): .....  
 Conversion Factor (F) : .....

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device :      Connected      ☐      Not connected but connectable      ☐      Not connected      ☐

Correct indication of ancillary device      ☐ (yes/no)

Conveyor Speed (m/min):      minimum      ☐      maximum      ☐      other      ☐

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

**Remarks**

RESULT:      PASS      ☐      FAIL      ☐

**2.18 Contrast of colour with background colour (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (*d*):Conversion Factor (*F*):

At start At end

Temp (°C)

RH (%)

Time

Date

Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

 (yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Remarks

RESULT:

PASS

FAIL

**2.19 Surface reflectivity and absorption of sound (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start At end

Temp (°C)

RH (%)

Time

Date

Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Remarks

--

RESULT:

PASS

FAIL

**2.20 Surface reflectivity and absorption of light (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device :      Connected            Not connected but connectable            Not connected     

Correct indication of ancillary device       (yes/no)

Conveyor Speed (m/min):      minimum            maximum            other     

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Remarks

RESULT:

PASS

FAIL

**2.21 Uniformity of density (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start At end

Temp (°C)

RH (%)

Time

Date

Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

**Remarks**

--

**RESULT:****PASS****FAIL**

**2.22 Transparency (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval ( $d$ ):Conversion Factor ( $F$ ):

At start At end

Temp (°C)

RH (%)

Time

Date

Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

 (yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	$L$	$\Delta L$	$W$	$\Delta W$	$H$	$\Delta H$	mpe		Pass/Fail	
1										
2										
3										

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	$L$	$\Delta L$	$W$	$\Delta W$	$H$	$\Delta H$	mpe		Pass/Fail	
1										
2										
3										

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	$L$	$\Delta L$	$W$	$\Delta W$	$H$	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID		Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	$L$	$\Delta L$	$W$	$\Delta W$	$H$	$\Delta H$	mpe		Pass/Fail	
1										
2										
3										

Test object ID		Length = unit=			Width = unit=			Height = unit=			Initial zeroing (Ready condition)		yes no
Run (units)	$L$	$\Delta L$	$W$	$\Delta W$	$H$	$\Delta H$	mpe	Pass/Fail					
1													
2													
3													

Remarks

RESULT:

PASS

FAIL

**2.23 Surface roughness (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start At end

Temp (°C)

RH (%)

Time

Date

Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Remarks

--

RESULT:

PASS

FAIL



**2.24 Protrusions on surface (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start At end

Temp (°C)

RH (%)

Time

Date

Ancillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of ancillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Test object ID	Length = unit=		Width = unit=		Height = unit=		Initial zeroing (Ready condition)		yes no
Run (units)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	mpe	Pass/Fail	
1									
2									
3									

Remarks

RESULT:

PASS

FAIL

**2.25 Orientation and position (A.1.6)**

Observer:

Type/ application #:

Instrument ID:

Scale Interval (*d*):Conversion Factor (*F*):

	At start	At end
Temp (°C)		
RH (%)		
Time		
Date		

Ancillary Device :      Connected            Not connected but connectable            Not connected     

Correct indication of ancillary device       (yes/no)

Conveyor Speed (m/min):      minimum            maximum            other     

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

**Remarks****RESULT:****PASS**

**FAIL**

**2.26 Test for speed of relative movement (A.1.6)****2.26.1 Minimum speed (A.1.6)**

Observer: \_\_\_\_\_

Type/ application #: \_\_\_\_\_

Instrument ID: \_\_\_\_\_

Scale Interval (d): \_\_\_\_\_

Conversion Factor (F) \_\_\_\_\_

Temp (°C) \_\_\_\_\_ At start \_\_\_\_\_ At end \_\_\_\_\_

RH (%) \_\_\_\_\_

Time \_\_\_\_\_

Date \_\_\_\_\_

Ancillary Device : Connected ☐ Not connected ☐ Not connected but connectable ☐

Correct indication of ancillary device ☐ (yes/no)

Conveyor Speed (m/min): minimum ☐ maximum ☐ other ☐

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

Test object ID	<input type="text"/>	Length = unit=	<input type="text"/>	Width = unit=	<input type="text"/>	Height = unit=	<input type="text"/>	Initial zeroing (Ready condition)	<input type="text"/>	yes no
Run (units)	<i>L</i>	$\Delta L$	<i>W</i>	$\Delta W$	<i>H</i>	$\Delta H$	mpe	Pass/Fail		
1										
2										
3										

**Remarks****RESULT:****PASS**☐**FAIL**☐



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**2.27 Examination of the construction of instrument (R 126-1, 5.1.2)**

Use this page to indicate any description or information pertaining to the instrument, additional to that already contained in this report and in the accompanying certificate of approval or OIML certificate of conformity.

This may include a picture of the complete instrument, a description of its main components and any remark which could be useful for initial or subsequent verifications of individual instruments built according to the pattern. It may also include references to the manufacturer's description.

**RESULT:****PASS**☐**FAIL**☐