



### **Third Committee Draft (3CD)**

Project: Revision of OIML R 129

Title: Multidimensional Measuring Instruments  
Part 3 – Test report format

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**1. General Information**  
**1.1 Multi Dimensional Measuring Instruments**

**Application**

Report Number

**Applicant Information**

Organisation Name

Address

Phone

E-mail

**Instrument to be tested**

Manufacturer

Model

Additional Details

**Authority Responsible for this report**

Organisation

Address

Report Number

Application Number

Testing period

Report Issue date

Approver (Please print)

Approver (Signature)

Stamps (If applicable)

**Synopsis of the Test Result**

The test sample **fulfills/does not fulfill** ALL the requirements as detailed in OIML R129 (20xx)

Pass/Fail

1.2. Guidance for Testing laboratories

Fill a new form for each new lab performing the test(s)

Organisation Name	<div></div>		
Address	<div></div>		
Application Number	<div></div>		
Test(s) performed by this laboratory	<div></div>		
Test Period	<div></div>		
Lab Accreditation	<div></div>	Expiry	<div></div>
Accrediting Authority	<div></div>		
Accreditation inclusive of OIML R 129	<div></div>	(Yes/No)	
Reference standards inclusive of measuring instruments	<div></div>		

Details if any of the tests have been performed at a location other than Lab premises

Person performing the tests

Name (Please Print)	<div></div>		
Signature	<div></div>	Date	<div></div>

Authorised Signatory

Name (Please Print)	<div></div>
Signature	<div></div>

Stamps (if applicable)

Comments

1.3. General information concerning type

Description of the instrument

(Key technical characterisitics and intended alpplication)

Information displayed on the instrument

Manufacturer Trademark

Year of manufacture

Type designation

Model Number for type (if appl)

Electrical Power Marking

Software i.d (if appl)

Other visible marking (if any)

Comments

Information about sample units

Serial Number	Model Number	Manufacture mode (prototype/production)	Year

(Add additional rows if required)

Comments

Relevant internal/external photographs or information pertaining to examinations

**1.4. Information on accessories supplied by applicant**

Batteries (if applic)	Type	<input type="text"/>	Vnom	<input type="text"/>	No. required	<input type="text"/>
Data Printer (if applic)	<input type="text"/>					
External data storage (if applic)	<input type="text"/>					
Cables	<input type="text"/>					
Other Accessories	<input type="text"/>					

**Information on sample instruments**

( In case the tests and evaluation are valid for more versions, give full details of the types, versions, measuring ranges, etc.)

**Justification for the selection of sample units**

**Adjustments and Modifications made to the EUT during testing**

**Details of previous results taken into account**

### 1.5. Information on the submitted calibrations

**Calibration principle**

--

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

--

**Additional information (e.g. connection equipment, interfaces, etc.)**

--



1.6. Documentation supplied by applicant

Date received	Document title and/or reference number	Description (include version number if applicable)

Insert rows as required

## 1.7. EXPLANATORY NOTES TO THE TEST REPORT

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  
 $DW_{calc} = V \times F$   
SF = Significant fault

How to read and fill out the test report

For each test the "SUMMARY OF PATTERN EVALUATION" and the "CHECKLIST" shall be completed according to this example:

	Pass	Fail	Remarks
When instrument has passed the test	X		
When instrument has failed the test		X	
When the test is not applicable	/	/	

The blank spaces in the headings of the report should always be filled in according to the following example (where applicable):

	At start	At end	
Temp:			°C
RH:			%
Time:			
Sound:			dB
Light:			lx

Where: Temp = Temperature (in °C)  
RH = Relative humidity (in %)  
Sound = Sound (in decibels)  
Light = Luminous flux (in lx)

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

Numbers in brackets refer to the corresponding clauses/subclauses of NMI R 129.

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

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

## 2. Type Evaluation Tests

### 2.1. SUMMARY OF TYPE EVALUATION

Report No.: \_\_\_\_\_  
 Application No.: \_\_\_\_\_  
 Manufacturer: \_\_\_\_\_  
 Make & Model: \_\_\_\_\_

Section	Test	Report Page	Pass	Fail	Remarks
2.2	Warm-up time test (A.1.1)				
2.3	Repeatability test (A.1.2)				
2.4	Static Temperature test (A.2.1)				
2.4.1	Initial reference temperature = °C				
2.4.2	(A.2.1.1) Dry Heat= °C				
2.4.3	(A.2.1.2) Cold= °C				
2.4.4	End reference temperature= °C				
2.5	Damp Heat steady state test (A.2.2)				
2.5.1	Initial reference temperature and 50% relative humidity				
2.5.2	High temperature and 85% relative humidity				
2.5.3	End reference temperature and 50% relative humidity				
2.6	AC Power variation test (A.2.3)				
2.6.1	Nominal voltage				
2.6.2	Nominal voltage + 10%				
2.6.3	Nominal voltage - 15%				
2.7	Battery voltage variation test (A.2.4)				
2.7.1	Nominal voltage				
2.7.2	Low voltage				
2.8	Short time power reduction test (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	Electrical discharge test (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	Electrical surges on mains power lines (A.3.4.1)				
2.11.2	Electrical surges on signal, data and control lines (A.3.4.2)				
2.12	Electromagnetic susceptibility test (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 test (A.4.1)				
2.13.1	200 lx to 500 lx (reference)				
2.13.2	100 lx				
2.13.3	1000 lx to 15000 lx				
2.13.4	.....lx				
2.13.5	Additional Sheet				
2.14	Acoustic test (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.1.7)				
2.16	Uniform surface colour test (A.1.7)				
2.17	Non uniform surface colour test (A.1.7)				
2.18	Contrast of colour with background colour test (A.1.7)				
2.19	Surface reflectivity and absorption of sound test (A.1.7)				
2.20	Surface reflectivity and absorption of colour test (A.1.7)				
2.21	Uniformity of density test (A.1.7)				
2.22	Transparency test (A.1.7)				
2.23	Surface roughness test (A.1.7)				
2.24	Protrusions on the surface test (A.1.7)				
2.25	Orientation and position test (A.1.7)				
2.26	Speed of relative movement test (A.1.7)				
2.26.1	Minimum speed				
2.26.2	Maximum speed				
2.27	Examination of the construction of the instrument (5.1.2, Part 1 of this Recommendation)				
2.28	Checklist				

OVERALL RESULT

2.2 Warm -Up Time test (A.1.1)

Observer: .....  
Type/ application #: .....  
Instrument 1 ID: .....  
Instrument 2 ID: .....

General comments on test:

Ambient temp (t): ..... °C  
Ambient RH: ..... %  
Date commenced: ..... ddmmyyyy  
Time commenced: ..... hh:mm

Not warm	Warm

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	ΔL	W	ΔW	H	ΔH	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	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail
(units)	(Yes/No)								
0 minutes									
5 minutes									
15 minutes									
30 minutes									

Remarks

2.3 Repeatability test (A.1.2)

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

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

Temp (°C)  
RH (%)  
Time  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =			Width =		Height =		Initial zeroing		yes	
		unit=			unit=		unit=		(Ready condition)		no	
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
1												
2												
3												

Test object ID		Length =			Width =		Height =		Initial zeroing		yes	
		unit=			unit=		unit=		(Ready condition)		no	
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
1												
2												
3												

Test object ID		Length =			Width =		Height =		Initial zeroing		yes	
		unit=			unit=		unit=		(Ready condition)		no	
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
1												
2												
3												

Test object ID		Length =			Width =		Height =		Initial zeroing		yes	
		unit=			unit=		unit=		(Ready condition)		no	
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
1												
2												
3												

Test object ID		Length =			Width =		Height =		Initial zeroing		yes	
		unit=			unit=		unit=		(Ready condition)		no	
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
1												
2												
3												

Remarks

RESULT:

PASS

FAIL

## 2.4 Static Temperature test (A.2.1)

#### 2.4.1 Initial Reference temperature test (A.2.1)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start	At end
----------	--------

Temp (°C)

RH (%)

Time

Date

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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**

#### 2.4.2 High temperature test (A.2.1.1)

Conversion Factor (F)

[illegible]

	At start	At end
a)		
b)		
c)		
d)		

\_\_\_\_\_

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Page 10

\_\_\_\_\_

☐ (yes/no)

\_\_\_\_\_

Page 10

\_\_\_\_\_

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

[illegible]

**PASS**

\_\_\_\_\_

11

### 2.4.3 Cold temperature test (A.2.1.1)

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

Conveyor Speed (m/min):      minimum       maximum       other

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

[illegible]

--

FAIL	
------	--



## 2.4 Static Temperature test (A.2.1)

### 2.4.4 Reference temperature test (A.2.1)

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

	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"/>

Auxillary Device :      Connected            Not connected            Not connected        
   but connectable

Correct indication of Auxillary device       (yes/no)

Conveyor Speed (m/min):      minimum            maximum            other     

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)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
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

## 2.5 Damp Heat Steady State Test (A.2.2)

### 2.5.1 Initial reference temperature and 50% relative humidity test (A.2.2)

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

	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"/>

Auxillary Device :      Connected       Not connected but connectable       Not connected

Correct indication of Auxillary device  (yes/no)

Conveyor Speed (m/min):      minimum       maximum       other

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)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
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

2.5 Damp Heat Steady State Test (A.2.2)

2.5.2 High tempearture and 85% relative humidity test (A.2.2)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

	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"/>

Auxillary Device :                      Connected                       Not connected but connectable                       Not connected

Correct indication of Auxillary device  (yes/no)

Conveyor Speed (m/min):            minimum                       maximum                       other

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)	L	ΔL	W	ΔW	H	ΔH	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
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

2.5 Damp Heat Steady State Test (A.2.2)

2.5.3 End reference tempearture and 50% relative humidity test (A.2.2)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At startAt end

Temp (°C)

RH (%)

Time

Date

Auxillary Device :ConnectedNot connected but connectableNot connected

Correct indication of Auxillary device (yes/no)

Conveyor Speed (m/min): minimummaximumother

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

Test Object ID	Initial zeroing (yes/no)	L	ΔL	W	ΔW	H	ΔH	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
1													
2													
3													
4													
5													

Remarks

RESULT:PASSFAIL

2.6 AC Power variation (A.2.3)

2.6.1 Nominal Voltage (A.2.3)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At startAt end

Temp (°C)

RH (%)

Nominal Voltage (V)

Time

Date

Auxillary Device :

Connected

Not connected but connectable

Not connected

Correct indication of Auxillary 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 AC Power variation (A.2.3)

### 2.6.3 Nominal Voltage - 15% (A.2.3)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

	At start	At end
Temp (°C)	<input type="text"/>	<input type="text"/>
RH (%)	<input type="text"/>	<input type="text"/>
Nominal Voltage - 15% (V)	<input type="text"/>	<input type="text"/>
Time	<input type="text"/>	<input type="text"/>
Date	<input type="text"/>	<input type="text"/>

Auxillary Device :      Connected       Not connected but connectable       Not connected

Correct indication of Auxillary device  (yes/no)

Conveyor Speed (m/mir minimum       maximum       other

Test Object	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	Initial zeroing (yes/no)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
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

## 2.6 AC Power variation (A.2.3)

### 2.6.2 Nominal Voltage + 10% (A.2.3)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

	At start	At end
Temp (°C)	<input type="text"/>	<input type="text"/>
RH (%)	<input type="text"/>	<input type="text"/>
Nominal Voltage + 10% (V)	<input type="text"/>	<input type="text"/>
Time	<input type="text"/>	<input type="text"/>
Date	<input type="text"/>	<input type="text"/>

Auxillary Device :      Connected       Not connected but connectable       Not connected

Correct indication of Auxillary device  (yes/no)

Conveyor Speed (m/mir minimum       maximum       other

Test Object	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	Initial zeroing (yes/no)	L	$\Delta L$	W	$\Delta W$	H	$\Delta H$	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
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

2.7 Battery Voltage Variation Test (A.2.4)

2.7.1 Nominal Voltage (A.2.4)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

Temp (°C)

RH (%)

Marked Nominal Voltage (V)

Time

Date

At start

At end

Auxillary Device :

Connected

Not connected but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min minimum

maximum

other

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

Test Object	Initial zeroing (yes/no)	L	ΔL	W	ΔW	H	ΔH	MPE	V	Vcalc	DW	Dwcalc	Pass/Fail
1													
2													
3													
4													
5													

Remarks

RESULT:

PASS

FAIL



2.7 Battery Voltage Variation Test (A.2.4)

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

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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

2.8 Short time Power Reduction Test (A.3.1)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At startAt end

Temp (°C)

RH (%)

Time

Nominal Voltage (V)

Date

Auxillary Device :ConnectedNot connected but connectableNot connected

Correct indication of Auxillary device (yes/no)

Conveyor Speed (m/min) minimummaximumother

Test object ID

Length = unit=

Width = unit=

Height = unit=

Initial zeroing (Ready condition)

yesno

Instrument										
Reduction in amplitude (as % marked nom volta	Duration ( in cycles)	Number of disturbances	Time between disturbances	Indication			SF > d	SF*	Result	Comment
				L	W	H				
units							Y/N	Y/N	PASS/FAIL	
0	0	0	–							
100	0.5	10	10 s							
0	0	0	–							
50	0.5	10	10 s							

Auxillary Device										
Reduction in amplitude (as % marked nom volta	Duration ( in cycles)	Number of disturbances	Time between disturbances	Indication			SF > d	SF*	Result	Comment
				L	W	H				
units							Y/N	Y/N	PASS/FAIL	
0	0	0	–							
100	0.5	10	10 s							
0	0	0	–							
50	0.5	10	10 s							

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.

Remarks

RESULT:PASSFAIL

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

Auxillary Device :      Connected       Not connected       Not connected

Correct indication of Auxillary device  (yes/no)

Conveyor Speed (m/min) minimum       maximum       other

Test object ID       Length =       Width =       Height =       Initial zeroing       yes

unit=       unit=       unit=       (Ready condition)      no

Instrument											
	Connection			Polarity	Results						
	L	N	PE		Indication			SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
	ground	ground	ground		L	W	H				
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

Auxillary device											
	Connection			Polarity	Results						
	L	N	PE		Indication			SF > d Y/N	SF * Y/N	Result PASS/FAIL	Comment
	ground	ground	ground		L	W	H				
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 Electrical Bursts (A.3.2)

2.9.2 Input / Output circuits and communication 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

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

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

Connection	Polarity	Results						
Cable / Interface		L	Indication W	H	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							

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

Remarks:  
(Explain or make a sketch indicating the loaction 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)

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

At start

At end

Auxillary Device :  
Correct indication of Auxillary device  
Conveyor Speed (m/min):  
Contact discharges

Connected  
(yes/no)  
minimum  
Contact discharges

Not connected  
but connectable  
maximum  
Air discharges  
Polarity \*\*

Not connected  
other  
Paint penetration  
negative

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

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

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

Auxillary device			Results								
Test Voltage (kV)	Disturbance No. of discharges	Rep. interval (s)	Indication								
			L	W	H	SF > d	SF *	Result	Comment		
units						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 Electrostatic Discharge (A.3.3)

2.10.2 Indirect Application (A.3.3)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

Nominal Voltage (V)

Temp (°C)

RH (%)

Time

Date

At start

At end

Auxillary Device :

Connected

Not connected but connectable

Not connected

Correct indication of Auxillary device

Conveyor Speed (m/min):

minimum

maximum

other

Contact discharges

Air discharges

Paint penetration

Polarity \*\*

positive

negative

Test object ID

Length =

Width =

Height =

Initial zeroing (Ready condition)

yes

no

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

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

Vertical coupling plane			Results						
Test Voltage (kV)	Disturbance		Indication						
	No. of discharges	Rep. interval (s)	L	W	H	SF > d	SF *	Result	Comment
units						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, recored the test point at which the EUT fails.  
3. Polarity \*\* - Tests shall be conducted at the most sensitive polarity.

RESULT:

PASS

FAIL

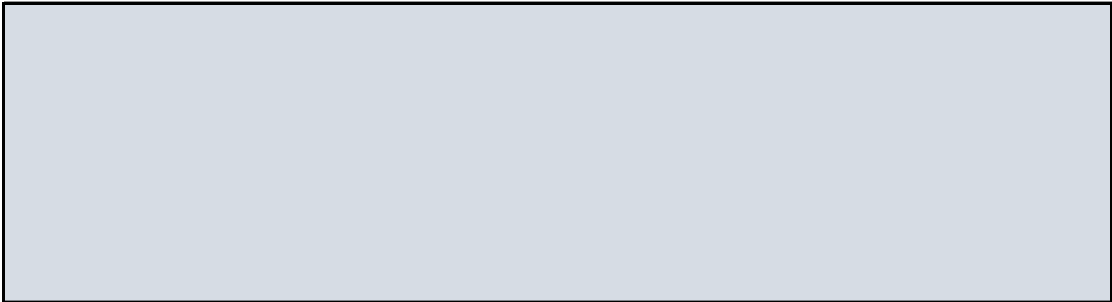
2.10 Electrostatic Discharge (A.3.3)

2.10.3 Electrostatic discharge Additional sheet (A.3.3)

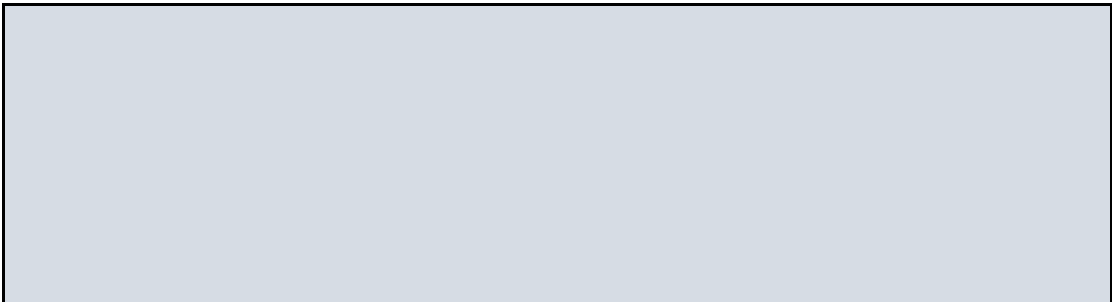
Specifications of test points of EUT (eg) photos or sketches

a) Direct application

Contact discharges:



Air discharges:

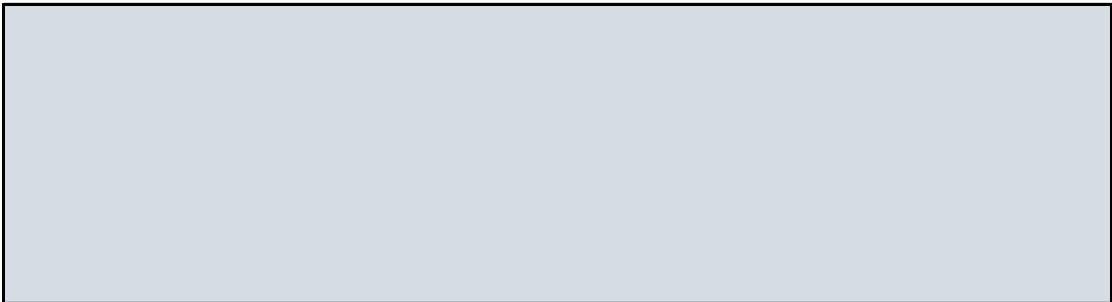


b) Indirect application

Contact discharges:



Air discharges:



2.11 Electrical Surges (A.3.4)

2.11.1 Surges on AC and DC mains power lines (A.3.4.1)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

Nominal Voltage (V)

Temp (°C)

RH (%)

Time

Date

At start

At end

Auxiliary Device : Connected

Not connected but connectable

Not connected

Correct indication of Auxillary 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

DC Mains Power 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							
	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							

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

Auxiliary Devices

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							
	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							

Note: 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



2.11 Electrical Surges (A.3.4)

2.11.1 Surges on AC and DC mains power lines (A.3.4.1)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start

At end

Temp (°C)

RH (%)

Time

Nominal Voltage (V)

Date

Auxillary Device :

Connected

Not connected but connectable

Not connected

Correct indication of Auxillary 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		Results						
Connection	Mode							
Test conditions		L	Indication W	H	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

Auxiliary Devices		Results						
Connection	Mode							
Test conditions		L	Indication W	H	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

2.11 Electrical Surges (A.3.4)

2.11.1 Surges on AC and DC mains power lines (A.3.4.1)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start

At end

Temp (°C)

RH (%)

Time

Nominal Voltage (V)

Date

Auxillary Device :

Connected

Not connected but connectable

Not connected

Correct indication of Auxillary 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		Results						
Connection	Mode							
Test conditions		L	Indication W	H	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

Auxillary Devices		Results						
Connection	Mode							
Test conditions		L	Indication W	H	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

2.11 Electrical Surges (A.3.4)

2.11.1 Surges on AC and DC mains power lines (A.3.4.1)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start

At end

Temp (°C)

RH (%)

Time

Nominal Voltage (V)

Date

Auxillary Device :

Connected

Not connected but connectable

Not connected

Correct indication of Auxillary 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		Results						
Connection	Mode							
Test conditions		L	Indication W	H	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

Auxillary Devices		Results						
Connection	Mode							
Test conditions		L	Indication W	H	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

2.11 Electrical Surges (A.3.4)

2.11.1 Surges on AC and DC mains power lines (A.3.4.1)

Observer:

Type/ application #:

Instrument ID:

Scale Interval (d):

Conversion Factor (F)

At start

At end

Temp (°C)

RH (%)

Time

Nominal Voltage (V)

Date

Auxillary Device :

Connected

Not connected but connectable

Not connected

Correct indication of Auxillary 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		Results						
Connection	Mode							
Test conditions		L	Indication W	H	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

Auxillary Devices		Results						
Connection	Mode							
Test conditions		L	Indication W	H	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

2.11 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

Auxillary Device :

Connected

Not connected but connectable

Not connected

Correct indication of Auxillary 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		L	Indication W	H	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 Electromagnetic susceptibility tests (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

Auxillary Device :

Connected

Not connected but connectable

Not connected

Correct indication of Auxillary 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				
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

### 2.12.2 Conducted RF electromagnetic fields (A.3.5.2)

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

Test object ID	Length =		Width =		Height =		Initial zeroing		yes
	unit=		unit=		unit=		(Ready condition)		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							

Frequency range : 0.15 MHz to 80 MHz  
Field strength: 10 V/m  
Modulation 80 % Am, 1 KHz sine wave

RESULT:                      PASS                      ☐                      FAIL                      ☐

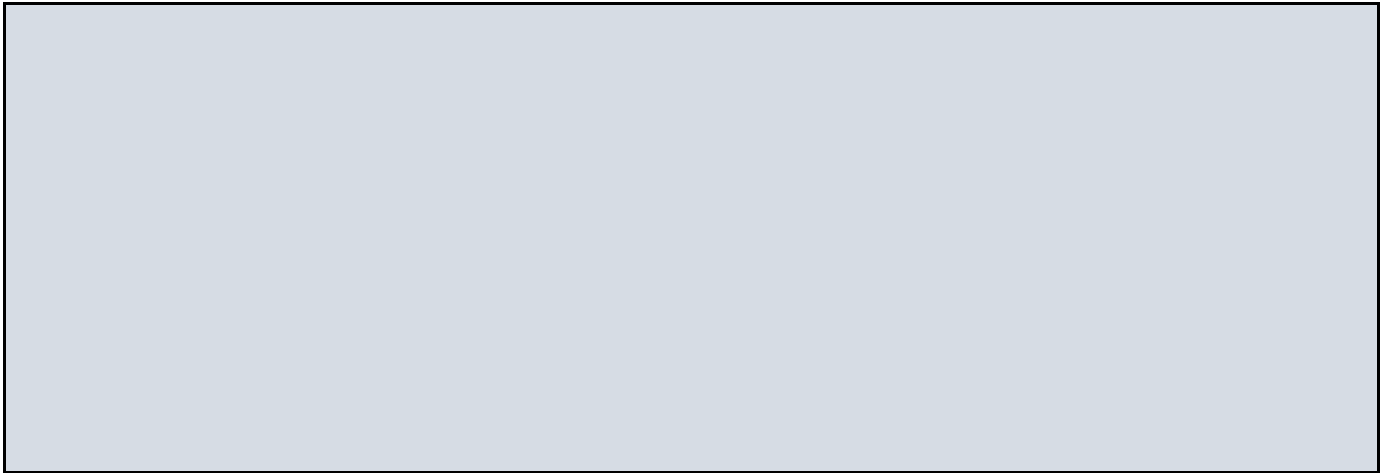
## 2.12 Electromagnetic susceptibility tests (A.3.5)

### 2.12.3 Additional Sheet

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

A large, empty rectangular box with a black border, intended for a description of the EUT setup, including photos or sketches.

2. Additional Remarks

A large, empty rectangular box with a black border, intended for additional remarks.



2.13 Ambient Light Test (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)

Temp (°C)  
RH (%)  
Time  
Light (lx)  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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 Ambient Light Test (A.4.1)  
2.13.2 Light testing at 100 lx (A.4.1)

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

Temp (°C)  
RH (%)  
Time  
Light (lx)  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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)	ΔL	W (units)	ΔW	H (units)	ΔH	MPE	Pass/Fail
1									
2									
3									
4									
5									

Remarks

RESULT:

PASS

FAIL

2.13 Ambient Light Test (A.4.1)  
2.13.3 Light testing at 1000 lx to 5000 lx (A.4.1)

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

Temp (°C)  
RH (%)  
Time  
Light (lx)  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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)	ΔL	W (units)	ΔW	H (units)	ΔH	MPE	Pass/Fail
1									
2									
3									
4									
5									

Remarks

RESULT:

PASS

FAIL

2.13 Ambient Light Test (A.4.1)  
2.13.4 Light testing at unknown lx (A.4.1)

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

Temp (°C)  
RH (%)  
Time  
Light (lx)  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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)	ΔL	W (units)	ΔW	H (units)	ΔH	MPE	Pass/Fail
1									
2									
3									
4									
5									

Remarks

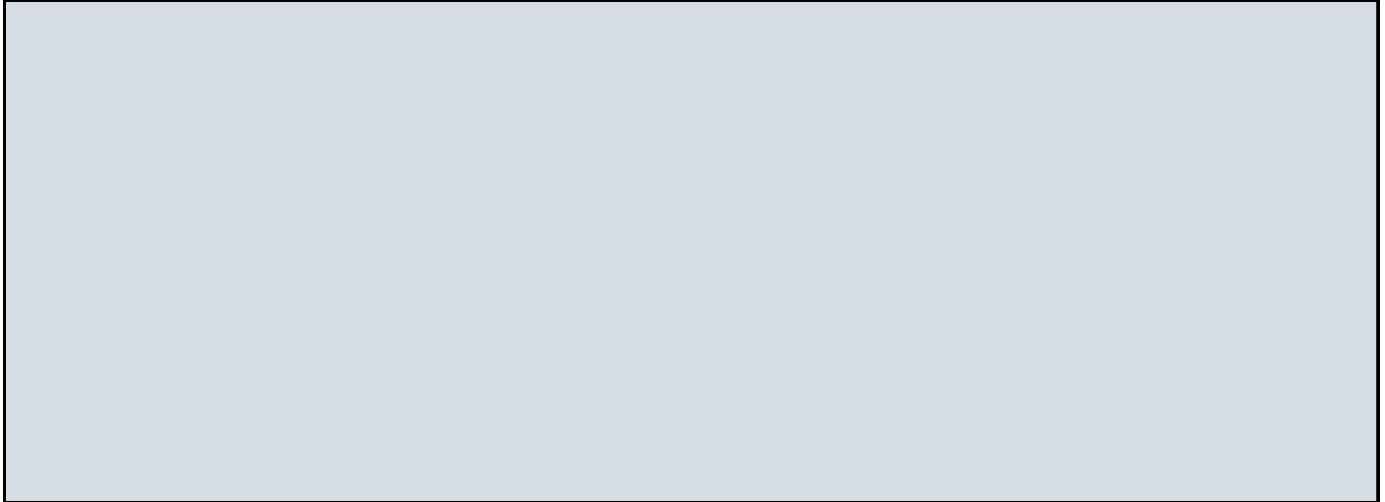
RESULT:

PASS

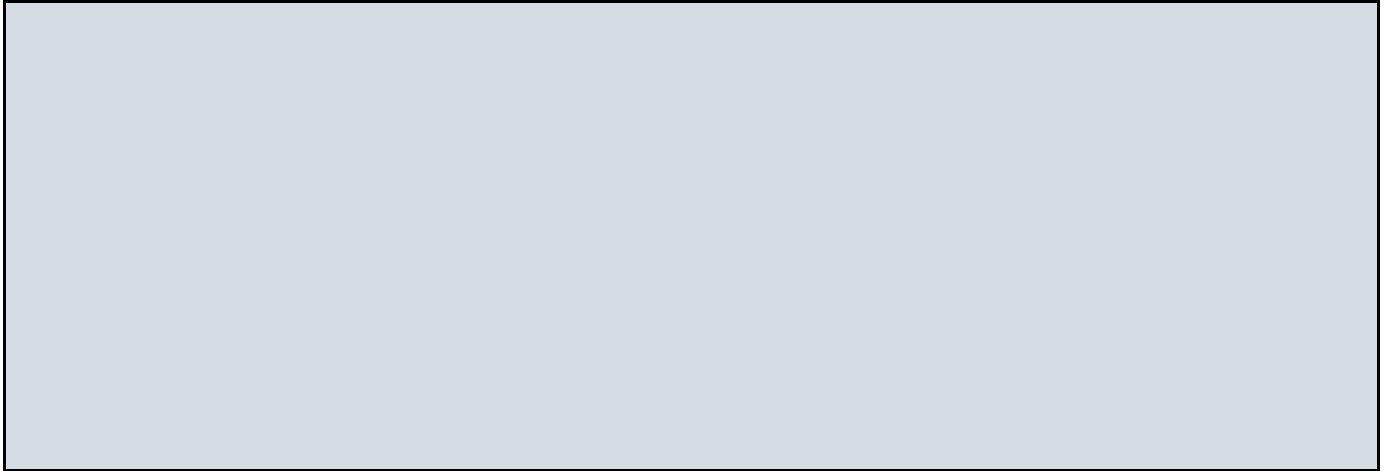
FAIL

**2.13 Ambient Light Test (A.4.1)**  
**2.13.5 Additional Sheet**

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



2. Additional remarks



2.14 Acoustic Test (A.4.2)  
2.14.1 Reference sound level (dB) (A.4.2)

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

Temp (°C)  
RH (%)  
Time  
Sound (dB)  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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)	ΔL	W (units)	ΔW	H (units)	ΔH	MPE	Pass/Fail
1									
2									
3									
4									
5									

Remarks

RESULT:

PASS

FAIL

2.14 Acoustic Test (A.4.2)  
2.14.2 100 dB sound level (dB) (A.4.2)

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

Temp (°C)  
RH (%)  
Time  
Sound (dB)  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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)	ΔL	W (units)	ΔW	H (units)	ΔH	MPE	Pass/Fail
1									
2									
3									
4									
5									

Remarks

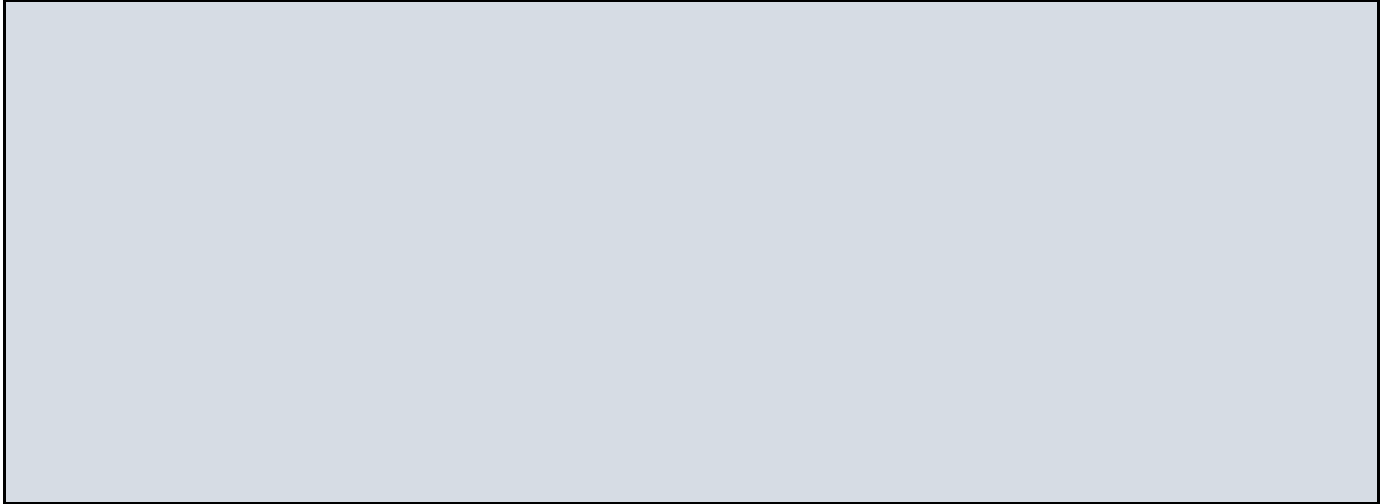
RESULT:

PASS

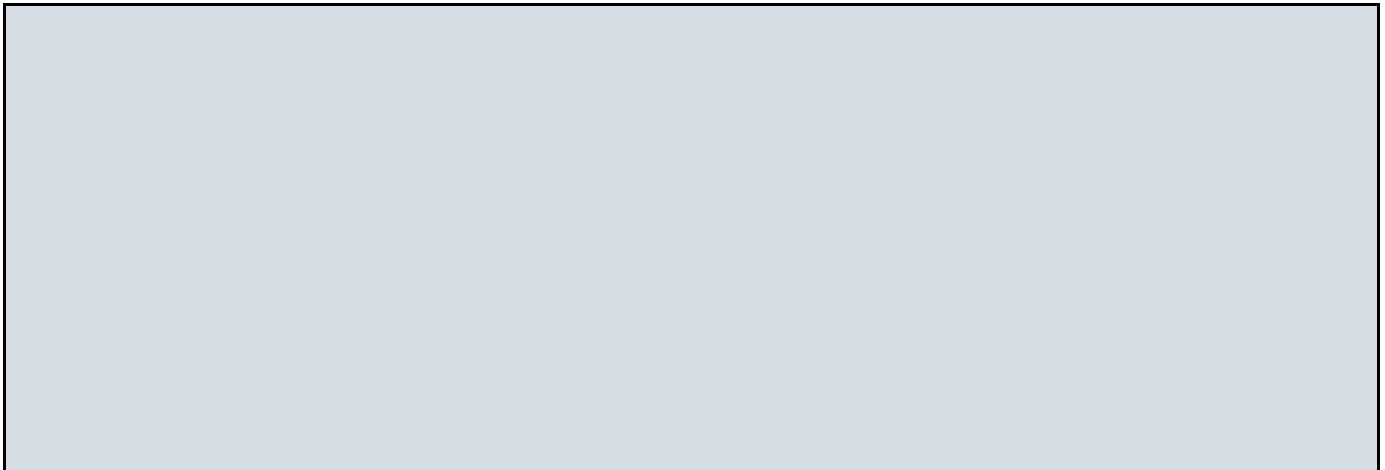
FAIL

**2.14 Acoustic Test (A.4.2)**  
**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.1.7)

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

Temp (°C)  
RH (%)  
Time  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Remarks

RESULT:

PASS

FAIL

2.16 Uniform Surface Colour test (A.1.7)

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

At start

At end

Temp (°C)

RH (%)

Time

Date

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Remarks

RESULT:

PASS

FAIL

2.17 Non Unifrom Surface Colour Test (A.1.7)

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

At start

At end

Temp (°C)

RH (%)

Time

Date

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Remarks

RESULT:

PASS

FAIL

2.18 Contrast of Colour with background colour test (A.1.7)

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

At start

At end

Temp (°C)

RH (%)

Time

Date

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Remarks

RESULT:

PASS

FAIL

2.19 Surface Reflectivity and absorption of sound test (A.1.7)

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

At startAt end

Temp (°C)  
RH (%)  
Time  
Date

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes no
		unit=			unit=			unit=					
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes no
		unit=			unit=			unit=					
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes no
		unit=			unit=			unit=					
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes no
		unit=			unit=			unit=					
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes no
		unit=			unit=			unit=					
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Remarks

RESULT:

PASS

FAIL

2.20 Surface Reflectivity and absorption of light test (A.1.7)

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

At start

At end

Temp (°C)

RH (%)

Time

Date

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Remarks

RESULT:

PASS

FAIL

2.21 Uniformity of density test (A.1.7)

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

At start

At end

Temp (°C)

RH (%)

Time

Date

Auxillary Device :

Connected

Not connected

but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =		Width =		Height =		Initial zeroing		yes
		unit=		unit=		unit=		(Ready condition)		no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing		yes
		unit=		unit=		unit=		(Ready condition)		no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing		yes
		unit=		unit=		unit=		(Ready condition)		no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing		yes
		unit=		unit=		unit=		(Ready condition)		no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing		yes
		unit=		unit=		unit=		(Ready condition)		no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Remarks

RESULT:

PASS

FAIL

2.22 Transparency test (A.1.7)

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

Temp (°C)  
RH (%)  
Time  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes no
		unit=		unit=		unit=				
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Remarks

RESULT:

PASS

FAIL



2.23 Surface Roughness test (A.1.7)

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

At start

At end

Temp (°C)

RH (%)

Time

Date

Auxillary Device :

Connected

Not connected

but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Remarks

RESULT:

PASS

FAIL

2.24 Protrusions on Surface test (A.1.7)

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

Temp (°C)  
RH (%)  
Time  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Test object ID		Length =			Width =			Height =			Initial zeroing (Ready condition)		yes
		unit=			unit=			unit=					no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail					
1													
2													
3													

Remarks

RESULT:

PASS

FAIL

2.25 Orientation and Position test (A.1.7)

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

At start

At end

Temp (°C)

RH (%)

Time

Date

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary device

(yes/no)

Conveyor Speed (m/min):

minimum

maximum

other

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Test object ID		Length =		Width =		Height =		Initial zeroing (Ready condition)		yes
		unit=		unit=		unit=				no
Run (units)	L	ΔL	W	ΔW	H	ΔH	MPE	Pass/Fail		
1										
2										
3										

Remarks

RESULT:

PASS

FAIL

2.26 Test for Speed of Relative Movement (A.1.7)  
2.26.1 Minimum Speed (A.1.7)

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

Temp (°C)  
RH (%)  
Time  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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	V (units)	Vcalc	DW (units)	DWcalc	Pass/Fail
1													
2													
3													
4													
5													

Remarks

RESULT:

PASS

FAIL

2.26 Test for Speed of Relative Movement (A.1.7)  
2.25.2 Maximum Speed (A.1.7)

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

Temp (°C)  
RH (%)  
Time  
Date

At start

At end

Auxillary Device :

Connected

Not connected  
but connectable

Not connected

Correct indication of Auxillary 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)	ΔL	W (units)	ΔW	H (units)	ΔH	MPE	V (units)	Vcalc	DW (units)	DWcalc	Pass/Fail
1													
2													
3													
4													
5													

Remarks

RESULT:

PASS

FAIL

**2.27 Examination of the Construction of Instrument (5.1.2, Part 1 of this Recommendation)**

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

2.28 Checklist

Report No:

Application No:

Manufacturer:

Make and Model:

Serial No:

Date:

Observer:

Requirement		Passed	Failed	Remarks
(Part 1 of this Recommendation)	Units of measurement			
3	Correct units and symbols used			
4.1	Scale intervals, minimum dimension			
	Correct minimum dimensions			
4.2.1	Range of special temperature limits			
	Atleast 30 °C			
5.1.1	Fradulent Use			
	Instrument shall not facilitate fardulent use			
5.1.2	Suitability of construction			
	All controls, indicators, etc. are suitable.			
5.1.3	Suitability for verification			
	Constructed so that test of performance requirements can be carried out			
	Test mode provided (only volume indicted in normal position)			
5.1.4	Zero or Ready Adjustment			
	Facilitates for zero or ready condition			
	Can only be set with no object in the measurement area.			
	Zero or Ready condition indicated.			
	Condition set automatically or inhibited if not set correctly			
5.1.5	Tare Device			
5.1.5 (a)	Only operates negatively with respect to the zero or ready condition.			
5.1.5 (b)	Value of thetare scale interval is the same as that for the respective axis and range.			
5.1.5 (c)	Operation of tare indicated.			
5.2.1	Indicators and printing devices			
5.2.1 (a)	Instrument has atleast one indicator which displays dimensions or volume.			
5.2.1 (b)	Device to transmit, store and preserve measurement results			
	Printing or storage inhibited when equilibrium is not stable			
5.2.1 (c)	For direct sales to the public, indication available to the customer.			
5.2.1 (d)	Indications automatically displayed or are readily available.			
5.2.1 (e)	Other indications (eg. DW,F0 are automatically displayed or are readily available			
5.2.1 (f)	Previously displayed indication persist long enough for easy reading by observer.			
5.2.1 (g)	Display of extended indication device:			
	– while pressing a key; or			
	– limited to 5 seconds			
	Printing and data transmission restricted in extended indication			
5.2.1 (h)	Extended indication device not fitted to instrument for direct sales to public.			
5.2.1 (i)	All indications are identified			
5.2.2	Clarity of indications			
	Indications, printing reliable, claear and unambigious and printing indelible			
	Figures easy to read			
	Digital indicator stable at changeover point			
	Digits oriented normally and permit reading by simple juxtaposition.			
5.2.3	Units of measurement			
	All indications include the name/symbol of the unit of measurement			
	On tickets, name or symbol printed by printer or preprinted,			
	For any one indication, only one unit of measurement used.			

## 2.28 Checklist, continued

Requirement		Passed	Failed	Remarks
<b>5.2.4</b>	<b>Value of Scale interval</b>			
	Value of Scale interval in the form 1,2 or 5 x 10 <sup>n</sup>			
	The scale interval shall be:			
<b>5.2.4 (a)</b>	– the same for each axis; or			
<b>5.2.4 (b)</b>	– different for one axis from the other provided instructions are marked, or indication of incorrect use given; or			
<b>5.2.4 (c)</b>	– variable, on one or more axes provided:			
	– All three axes are multi-interval - all the same			
	– two axes are multi-interval and the third is fixed.			
	– instrument limitations are clearly marked.			
	– one axis is multi-interval and the others are fixed.			
	– instrument limitations are clearly marked.			
<b>5.2.5</b>	<b>Decimal numbers</b>			
	One zero before decimal mark for values <1.			
	Decimal mark printed.			
	One or more fixed zeros to the right of variable numbers for values >1.			
	Printed numbers and symbols at least 2 mm high.			
<b>5.2.6</b>	<b>Limits of Indication</b>			
	Dimensions above maximum + 9d either:			
<b>5.2.6 (a)</b>	– blank; or			
<b>5.2.6 (b)</b>	– be identified by an obvious difference in the display.			
<b>5.2.7</b>	<b>Multi-interval instruments</b>			
	For each partial measuring range:			
<b>5.2.7 (a)</b>	– d <sub>1</sub> <d <sub>2</sub> <.....<d <sub>n</sub> ;			
<b>5.2.7 (b)</b>	– min = min <sub>1</sub> , max = max <sub>r</sub> , max <sub>1</sub> = min <sub>2</sub> etc.			
<b>5.2.8</b>	<b>Multi-instrument systems</b>			
	Test indicator provided if indicator not near each device			
	Test indicator readily connected to each device without affecting the performance.			
	Indications on common indicator and test indicator agree.			
	Indication from each device clearly identified on the common indicator.			
<b>5.2.9</b>	<b>Printed and displayed information</b>			
	Ticket or display includes sufficient information			
	Examples:			
<b>5.2.9.1 (a)</b>	– dimensions: length (L), width (W) and height (H)			
<b>5.2.9.1 (b)</b>	– volume (V)			
<b>5.2.9.1 (c)</b>	– weight (W)			
<b>5.2.9.1 (d)</b>	– dimensional weight (DW.....kg)			
<b>5.2.9.1 (e)</b>	– dimensional tare (DT.....kg) or linear tare (LT.....cm)			
<b>5.2.9.1 (f)</b>	– conversion factor (F)			
<b>5.2.9.1 (g)</b>	– quantity for charging			
<b>5.2.9.1 (h)</b>	– price rate and price			
<b>5.2.9.1 (i)</b>	– date, transaction number etc.			
<b>Note 1</b>	Icons used			
<b>Note 2</b>	Information displayed or available on demand			
<b>Note 3</b>	Price interval and price rate comply with national regulations			
<b>5.2.9.2</b>	A printed ticket contains printed or preprinted notices stating:			
<b>5.2.9.2 (a)</b>	– dimensions and/or volume are those of the smallest rectangular box			
<b>5.2.9.2 (b)</b>	– dimensional weight is a calculated value			



## 2.28 Checklist, continued

Requirement		Passed	Failed	Remarks
<b>5.3.1</b>	<b>Markings</b>			
	Instrument clearly and permanently marked on the nameplate in the vicinity of indicating device.			
	Nameplate contains the following information			
	5.3.1 (a) – manufacturer's name or mark			
	5.3.1 (b) – model designation			
	5.3.1 (c) – serial number and year of manufacture			
	5.3.1 (d) – pattern approval mark			
	5.3.1 (e) – minimum and maximum dimensions for each axis			
	5.3.1 (f) – maximum and minimum measuring speeds			
	5.3.1 (g) – scale interval(s) in the form of d =			
	5.3.1 (h) – temperature limits (if other than - 10°C to 40°C)			
<b>5.3.2</b>	<b>Notices</b>			
	Notice(s) or limitation(s) of use clearly marked and visible to the operator, or in operator's manual.			
	5.3.2 (a) Special application.			
	5.3.2 (b) Minimum spacing			
	5.3.2 (c) Measure only rectangular boxes			
	5.3.2 (d) Box location			
	5.3.2 (e) Limitations of surface characteristics			
	5.3.2 (f) Dimensions / volume are those of smallest rectangular box.			
	5.3.2 (g) Dimensional weight a calculated value.			
	Other special notoces relating to the instrument.			
<b>5.4.1</b>	<b>Verification Mark</b>			
	Provision made for the application of a verification mark			
	The following requirements apply:			
	5.4.1 (a) mark easily affixed without affecting the metrological properties			
	5.4.1 (b) mark visible without moving or dismantling instrument when in use.			
	5.4.1 (c) the part on which the mark is located is not removable from the instrument without damaging the mark			
	5.4.1 (d) the size of the space sufficient for a mark (e.g. at least 200 mm <sup>2</sup> )			
<b>5.5.2</b>	<b>Auxillary devices interface</b>			
	Interface does not allow metrological functions to be affected by the operation of the auxillary devices or connected instruments or disturbances acting on the interface.			
	Interface sealed if instructions or data affecting the measurement result can be introduced through the interface.			
<b>5.6.1</b>	<b>Acting upon significant faults</b>			
	Instrument made automatically inoperative; or			
	visible or audible indication until user takes action or fault disappears			
	Automatic instrument made inoperative automatically			
<b>5.6.2</b>	<b>Indication Check</b>			
	Display check needed			
	Display check not needed			
	All elements of the indication are active and non-active long enough to be checked by the operator.			

## 2.28 Checklist, continued

Requirement		Passed	Failed	Remarks
<b>6.4.1</b>	<b>Sealing</b>			
	Provision made for sealing by mechanical or electronic means			
	Mechanical seal applied as in 9.1			
	For electronic seals:			
<b>6.4.1 (a)</b>	– access by authorised persons protected by physical key or password.			
<b>6.4.1 (b)</b>	– access to alter parameters automatically recorded.			
<b>6.4.1 (c)</b>	– record readily accessible by simple action			
<b>6.4.1 (d)</b>	– record readily identifiable.			
<b>6.4.1 (e)</b>	– reference record permanently marked on the instrument			
<b>6.4.1 (f)</b>	– record does not repeat in a sequence of less than 999 alterations			
	– record persists reliably for a period of at least two years.			
<b>6.4.1 (g)</b>	– record persists through tests for influence factors and disturbances.			
<b>1.1, Part 2 of this Recommendation</b>	<b>Documentation</b>			
	Submission accompanied by sufficient documentation, to ensure complete understanding of the construction and method of operation of the instrument including:			
	– drawings			
	– specifications			
	– photographs			
	– descriptions			
	Details of the measurement data contained in the memory and calculation methods provided			
	For electronic instruments, documentation includes:			
	– list of all electronic sub-assemblies with their essential characteristics			
	– description of electronic devices with drawings, diagrams and general software information explaining their construction and operation			

RESULT

PASS

☐

FAIL

☐