

()
INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION
(ISC)

**IEC 61010-2-081 —
2013**

-

2-081

(IEC 61010-2-081:2009,)

1 61010-2.081—2013

1.0—92 «
 1.2—2009 «
 1 «
 2
 3 (-
 44-2013 14 2013 .)
 :

(3166)004 - 97	(3166)004 - 97	
	BY	
	KZ	
	KG	
	RU	

4 2014 . 299- IEC 61010-2-081—2013 2
 1 2015 .

5 IEC 61010-2-081: 2009 Safety re-
 quirements for electrical equipment for measurement, control, and laboratory use — Part 2-081: Particular
 requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes
 (2-081.
).
 ().
 — ().

6 8

IEC 61010-2.081—2013

1	.....	1
2	.....	2
3	.....	2
4	.....	2
5	.....	2
6	.....	6
7	.....	6
8	.....	7
9	.....	7
10	.....	7
11	.....	7
12	.....	7
13	.....	7
14	.....	8
15	.....	8
16	.....	8
	()	9
	()	10
	.....	11
	.....	12
	.....	13

- 1) () () -
- 2) () « ») -
- 3) () -
- 4) () -
- 5) () -
- 6) () -
- 7) () -
- 8) () -
- 9) () -

IEC 61010-2-081

66:

IEC Guide

104.

(2001) [66/332/RVD].

66/260/FDIS 66/269/RVD)

IEC 61010-2-081 1 (2003) [

66/327/FOIS

1.1.

1.

IEC 61010-2-081 IEC 61010-1:2001.

IEC 61010-1.

IEC 61010-1.

IEC 61010-2.081—2013

		IEC «	IEC 61010-1.	
			»	
		IEC 61010-1	IEC 61010-2-081.	-
			2	IEC
61010	«	», «	», «	-
	,	,	,	-
			IEC 61010-1.	-
	:			
1)	:	Anal;	:	
-	:		ARIAL;	
-	:		:	
•			ARIAL:	
-	,		,	3:
	ARIAL:			
2)	,		,	-
	,	IEC 61010-1.	,	-
101.	,		,	-
	,		,	-
			http://webstore.iec.ch	-
	:			
•	:			
•	:			
•	:			
•	:			

IEC 61010-2-081—2013

2-081

**Safety requirements for electrical equipment for measurement, control, and laboratory use.
Part 2-081. Particular requirements for automatic and semi-automatic laboratory equipment
for analysis and other purposes**

— 2015—09—01

1

IEC 61010-1

:

1.1

:

—
—
—

1

—
—
—
—

2

IEC 61010-2.

IEC 61010-2

1.2

1.2.1

:

1 61010-2.081—2013

(7.2.101)

- a)
- b)
- 1.2.2

2

IEC 61010-1.

IEC 60068-2-75: 1997. *Environmental testing — Part 2-75: Test — Test Eh: Hammer tests* (— 2-75: E▶)

3

IEC 61010-1.

3.1

3.101 (HARM):

[ISO/IEC 51:1999. 3.3]

3.102 (RISK):

[ISO/IEC 51:1999. 3.2]

3.103 (TOLERABLE RISK):

(ISO/IEC 51:1999. 3.7)

4

IEC 61010-1.

4.4.2

4.4.2.101

5

IEC 61010-1.

5.1.1

IEC

60027.

1.

101 (. 1).

1—

			« 1	
101		—	ISO 7000—0659	

5.1.5

(,),

3:

3 —

5.1.5.101

a)

14

1;

14

b)

1(.5.4.3).

5.2

101 1.

1.

14

IEC 61010-2.081—2013

7.2.101

7.2.102.

101 1.

5.1.5.1), 6.1.2 b), 6.5.1.2), 6.6.2. 7.2

).7.2.101 0. 7.2.102), 7.3. 10.1.13.2.2.

5.3

5.1.2 — 5.2,

30

5.4.1

5.4.3

5.4.3

a)

b)

c)

d)

e)

f)

)

h)

i)

j)

k)

12.5.1;

(. 12);

l) 1) ; , -
2) ; (. 9.5). -
6.11.2.1) (. 9.5). ,
) , (, , -
5.4.4 :
a) :
— IEC 60073 -
b) . (.6.11): -
c) , -
; d) ; -
e) , , ; -
f) , ; -
) (.11.2); -
h) : -
i) , ; -
j) (, ,) -
; k) , -
l) , , , -
) , (7.2.101 7.2.102). -
2 , -
3 , , ,

IEC 61010-2.081—2013

5.4.101

6

IEC 61010-1.

7

IEC 61010-1.

7.2

7.2.101

)

a)

b)

c)

d)

e)

f)

(.5.4.1).

b),), d)

(.5.2).

7.2.102

a)

b)

c)

7.2.101)

(. 5.2)

14

1,

8

IEC 61010-1.

8.2.1

()

:

)

100

9

IEC 61010-1.

10

IEC 61010-1.

11

IEC 61010-1.

11.3

:

— 0,2

0.1

15

5

6.8 (

6.3.1.

12

(61010-1.

13

13.1

:

IEC 61010-2.081—2013

13.1

14

IEC 61010-1.

15

IEC 61010-1.

16

IEC 61010-1.

IEC 61010-2-081—2013

: IEC 61010-1 :

()

IEC 61010-1 :

3.103

3.102

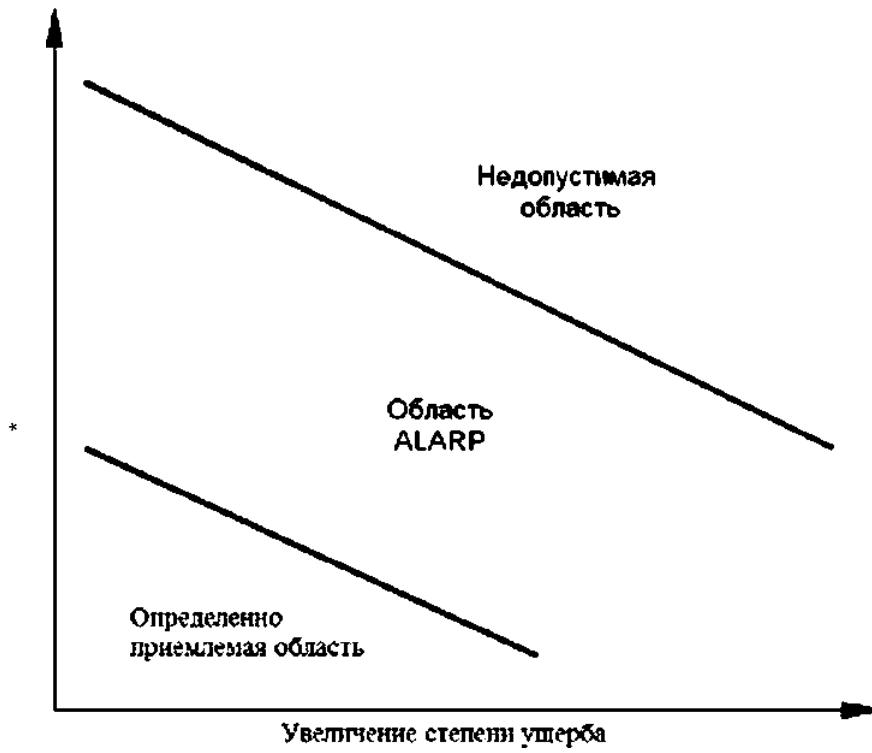
3.101

IEC 61010-2.081—2013

()

7.2.101.

- a) :
— : -
- b) :
, (. .1): -
- 1) :
, -
-
- 2) :
(ALARP), (-
ALARP
- 3) :
c) :
, -
- 1 : IEC 61010-2-101 IVD , -
- 2 : ISO 14121 IEC 61010. ISO/TR 12100-2.



.1 —

IEC 61010-2.081—2013

()

. 1

IEC 61010-1:2010 — 1:		
IEC 60068-2-75 2-75 — — Eh.		
* . . . -		

IEC 61010-1

IEC 60073:1996 Basic and safely principles for marvmaсfrne interface, marking and identification — Coding principles for induction devices and actuators
(— ,)

ISO/IEC Guide51:1999 Safety aspects — Guidelines for their inclusions in standards
(—)

ISO 7000:1989 Graphical symbols for use on equipment — Index and synopsis
(—)

ISO/TR 12100-2:1992 Safety of machines — Basic concepts, general principles for design -Part 2: Technical principles and specifications
(—)

ISO 14121:1999 Safety of machinery — Principles of risk assessment
(—)

ISO 14971:2000 Medical devices — Application of risk management to medical devices
(—)

Laboratory Biosafety Manual World Health Organization. 1984
(.1984)

