Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate No.
R76/2006-DE1-14.01

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name:	Physikalisch-Technische Bundesanstalt
Address:	Bundesallee 100, 38116 Braunschweig
Person responsible:	Dr. O. Mack

Applicant

Name:	Sartorius Scientific Instruments (Beijing) Co., Limited Tianzhu Airport Industrialzone
Address:	Yu An Road No. 33, Zone B, 101300 Beijing China

Manufacturer of the certified type is the applicant.

Identification of the certified type

Nonautomatic electromechanical weighing instrument

Type: MSX

Further characteristics see tables 1, 2, 3, 4 and 5

This Certificate attests the conformity of the above identified type (represented by the sample or samples identified in the associated Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R76-1, edition 2006,
for accuracy classes (I) and (II)

This Certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation identified above.

This Certificate does not bestow any form of legal international approval.

R3-0033

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The conformity was established by tests described in the associated Report N° 1.12-4041251 and the Test Reports N° 1.12-4068604/1, N° 1.12-4068604/2, N° 1.12-4068604/3, N° 1.12-4068604/4, N° 1.12-4068604/5, N° 1.12-4068604/6, N° 1.12-4068604/7, N° 1.12-4068604/8, N° 1.12-4068604/9, N° 1.12-4068604/10, N° 1.12-4068604/11, N° 1.12-4068604/12, N° 1.12-4068604/13, N° 1.12-4068604/14, N° 1.12-4068604/15, N° 1.12-4068604/16, N° 1.12-4068604/17, N° 1.12-4068604/18, N° 1.12-4068604/19, N° 1.12-4068604/20 and N° 1.12-4068604/21

The Issuing Authority

Dr. O. Mack
Head of Working Group

09.07.2014

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The CIML Member

Dr. R. Schwartz
Vice-president

09.07.2014

The weighing instruments are modular structured, consisting of weighing module and indicating and operator terminal. The modules have in addition a type designation of their own, e.g.
indicating and operator terminal: YAC01MSE..., YAC01MSU...YAC01MSA...
weighing module: S... E... (SA EA, SA EB,....)

Table 1

Module type	SA EA	SB EA	SC EA
Class		(I)	
Max	50 g ... 320 g	500 g ... 3200 g	5000 g ...14200 g
e =	1 mg ... 5 mg	10 mg ...50 mg	100 mg ... 200 mg
d =	0,1 mg ... 5 mg	1 mg ... 50 mg	10 mg .... 200 mg
n ≤	320000	320000	142000
Tare-balancing range ≤	100 % of Max	100 % of Max	100 % *of* Max
Temperature range	+ 15 °C / + 25 °C	+ 15 °C / + 25 °C	+ 15 °C / + 25 °C
Temperature range [1)]	+ 5 °C / + 40 °C	+ 5 °C / + 40 °C	+ 5 °C / + 40 °C
Nominal load of load receptor [2)]	362 g	3400 g	14620 g
Initial zero-setting range + dead load ≤	312 g	2900 g	9620 g

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Table 2

Module type	SD EE	SE EA	SF EA
Class		(I)	
Max	50 g ... 220 g	50 g ... 520 g	1000 g ... 5200 g
e =	1 mg ... 2 mg	1 mg ... 5 mg	10 mg ... 50 mg
d =	0,01 mg ... 2 mg	0,1 mg ... 5 mg	1 mg ... 50 mg
n ≤	220000	520000	520000
Tare-balancing range ≤	100 % *of* Max	100 % *of* Max	100 % *of* Max
Temperature range	+ 15 °C / + 25 °C	+ 15 °C / + 25 °C	+ 15 °C / + 25 °C
Temperature range [1)]	+ 5 °C / + 40 °C	+ 5 °C / + 40 °C	+ 5 °C / + 40 °C
Nominal load of load receptor [2)]	242 g	572 g	5400 g
Initial zero-setting range + dead load ≤	192 g	522 g	4400 g

Table 3

Module type	SB EB	SC EB	SC EA	SC EC
Class		(II)		
Max	1 g ... 620 g	500 g ... 6200 g	500 g ... 8200 g	5000 g ... 12200 g
e =	0,01 g ... 0,1 g	0,1 g ... 0,5 g	0,1 g ... 1 g	1 g ... 2 g
d =	0,001 g ... 0,1 g	0,01 g ... 0,5 g	0,01 g ... 1 g	0,1 g ... 2 g
n ≤	62000	62000	82000	12200
Tare-balancing range ≤	100 % of Max	100 % of Max	100 % of Max	100 % of Max
Temperature range	+ 10 °C / + 30 °C	+ 10 °C / + 30 °C	+ 10 °C / + 30 °C	+ 10 °C / + 30 °C
Temperature range [1)]	+ 5 °C / + 40 °C	+ 5 °C / + 40 °C	+ 5 °C / + 40 °C	+ 5 °C / + 40 °C
Nominal load of load receptor [2)]	682 g	6820 g	8620 g	13420 g
Initial zero-setting range + dead load ≤	681 g	6320 g	8120 g	8420 g

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Table 4

Module type	SG EE	SH EE
Class	(I)	(I)
Max	6,1 g	2,1 g
e =	1 mg	1 mg
d =	0,001 mg	0,0001 mg
n ≤	6100	2100
Tare-balancing range ≤	100 % *of* Max	100 % *of* Max
Temperature range	+ 15 °C / + 25 °C	+ 15 °C / + 25 °C
Temperature range [1)]	+ 5 °C / + 40 °C	+ 5 °C / + 40 °C
Nominal load of load receptor [2)]	6,7 g	2,5 g
Initial zero-setting range + dead load ≤	6,7 g - Max	2,5 g - Max

[1)] Only for weighing instruments with incorporated span adjustment device with automatic release.
[2)] The sum of Max, initial zero setting range and dead load shall not exceed the nominal load of the load receptor.

Table 5

Module type	SI EF	SJ EF
class	(II)	(II)
Max ≤	36200 g	70200 g
e =	1 g …5 g	10 g
d ≥	0,1 g	1 g
n ≤	36200	7020
Tare-balancing range ≤	100 % of Max	100 % of Max
Temperature range	+ 10 °C / + 30 °C	+ 10 °C / + 30 °C
Temperature range [1)]	+ 5 °C / + 40 °C	+ 5 °C / + 40 °C
Nominal load of load receptor [2)]	39200 g	73200 g
Initial zero-setting range +dead load ≤	39200 g - Max	73200 g - Max

[1)] Only for weighing instruments with incorporated span adjustment device with automatic release.
[2)] The sum of Max, initial zero setting range and dead load shall not exceed the nominal load of the load receptor.