Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate N°
R51/2006-DE1-07.07

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

Name:	Mettler-Toledo Garvens GmbH
Address:	Kampstr. 7, 31180 Giesen

Manufacturer of the certified type is the applicant.

Identification of the certified type

Automatic catchweighing instrument
Type: ABC

Further characteristics see page 2

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):

R51-1, edition 2006
for accuracy classes XIII(1), XIIII(x ≥ 2), Y(a) and Y(b)

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 the results of tests and examinations provided in the associated Report

No 1.12-4032862 (21 pages)

and Test Reports

No 1.12-4032862/1 (41 pages),
No 1.12-4032862/2 (45 pages),
No 1.12-4032862/3 (40 pages),
No 1.12-4032862/4 (49 pages),
No 1.12-4032862/5 (70 pages),
No 1.12-4032862/6 (13 pages),
No 1.12-4032862/7 (13 pages),
No 1.12-4032862/8 (63 pages) and
No 1.12-4032862/9 (63 pages)

The Issuing Authority

Dr. P. Zervos
Direktor und Professor

2007-12-14

The CIML Member

Dr. R. Schwartz
Direktor und Professor

2007-12-14

Physikalisch-Technische Bundesanstalt

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Identification of the pattern (continued)

Automatic electromechanical weighing instrument as

- catchweigher,
- weigh price labeller,
- weigh labeller or
- checkweigher,

equipped

- with electrodynamic force compensation load cell (EFC-LC) or
- with strain gauge load cell (SG-LC)

and performed as

- single or multi interval instrument.

Design	Single- or multi-interval instrument			
Lever work	None			
Weighing mode	Static weighing		Dynamic weighing	
Number of intervals	≤ 4		≤ 2	
Accuracy class	XIII(1); XIIII(x ≥ 2)	Y(a), Y(b)	XIII(1); XIIII(x ≥ 2)	Y(a), Y(b)
Verification scale interval e	$e_1 \geq 0.1$ g [1)]			
Ratio between verification scale intervals	$\frac{e_{i+1}}{e_i} < 3$ [1)]			
Number n of verification scale intervals	≤ 4 • 10000 [1) 2)]		≤ 2 • 7500 [1) 2)]	
Maximum load Max	≤ 600 kg [1)]			
Minimum load Min	≥ 20 e_1 [1) 3)]		≥ 5 g [1) 4)]	
Temperature range	0°C / +40°C			
Maximum belt speed	≤ 3 m/s			

Tab. 1: Technical data of weighing instruments of the type series ABC

1) Metrological characteristics depend on the SG-LC or EFC-LC; cf. Report No 1.12-4032862
2) For weighing instruments of the category XIIII(x ≥ 2) and Y(b) the number of verification scale intervals is limited to $n_i \leq 1000$.
3) The minimum capacity in case of static weighing for category Y depends on the specification according to R51-1:2006 No 2.2.2. In that case it may be applied to corresponding category X in the same way in order to achieve smaller minimum capacities.
4) For weighing instruments of the category X the minimum loads depend on the used digital LC, and for weighing instruments of the category Y additionally on the specification under 1). In case of category Y the greater value has to be taken. Greater minimum loads may also result from the metrological test of the legal metrological control.