

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate N°  
**R51/2006-DE1-07.01**

## 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 DMS

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), XIII(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.

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The conformity was established by the results of tests and examinations provided in the associated Report

No. 1.12-4023343 (20 pages)  
and Test Reports  
No. 1.12-4023343/1 (63 pages) and  
No. 1.12-4023343/2 (63 pages).

## The Issuing Authority

Dr. P. Zervos  
Direktor und Professor

2007-11-12

## The OIML Member

Dr. R. Schwartz  
Direktor und Professor

2007-11-12

## Identification of the pattern (continued)

Automatic electromechanical weighing instrument as

- catchweigher,
  - weigh price labeller,
  - weigh labeller or
  - checkweigher,
- equipped
- with strain gauge load cell (SG-LC)
- and performed as
- single or multi interval instrument.

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Weighing mode	Static weighing		Dynamic weighing	
Accuracy class	XIII(1); XIII(x ≥ 2)	Y(a); Y(b)	XIII(1); XIII(x ≥ 2)	Y(a); Y(b)
Verification scale interval e	$e \geq 1 \text{ g}^{1)}$ $e \geq 0.5 \text{ g}^{2)}$			
Ratio between verification scale intervals	$\frac{e_{i+1}}{e_i} < 3$			
Number n of verification scale intervals	$\leq 1 \cdot 6000^{1) 3)}$ $\leq 2 \cdot 3000^{2) 3)}$			
Maximum load Max	$\leq 20 \text{ kg}^{1)}$ $\leq 15 \text{ kg}^{2)}$			
Minimum load Min	$\geq 20e_1^{4)}$		$\geq 20 \text{ g}^{5)}$	
Temperature range	0°C / +40°C			
Maximum belt speed	$\leq 2.5 \text{ m/s}$			

**Tab. 1: Technical data of the weighing instrument of type ABC DMS**

- 1) This applies only to single-interval instruments.
- 2) This applies only to multi-interval instruments.
- 3) For weighing instruments of the category XIII(x) with  $x \geq 2$  and Y(b) the number of verification scale intervals is limited to  $n_i \leq 1000$ .
- 4) 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.
- 5) For weighing instruments of the category X the minimum loads depend on the used digital LC, cf. tab. 1, and for weighing instruments of the category Y additionally on the specification under 4). 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.

*Important note:* Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated Test Report(s) is not permitted, although either may be reproduced in full.