

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate N°
R51/2006-DE1-07.04

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

Name: Bizerba GmbH & Co. KG
Address: Wilhelm-Kraut-Str. 65, 72336 Balingen

Manufacturer of the certified type is the applicant.

Identification of the certified type

Automatic catchweighing instrument
Type: GLM-I

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. 1.12-4025389 (20 pages)

and associated Test Reports

No. 1.12-4025389/1 (71 pages),
No. 1.12-4025389/2 (40 pages),
No. 1.12-4025389/3 (52 pages),
No. 1.12-4025389/4 (65 pages),
No. 1.12-4025389/5 (26 pages),
No. 1.12-4025389/6 (68 pages) and
No. 1.12-4025389/7 (63 pages).

The Issuing Authority

Dr. P. Zervos
Direktor und Professor

2007-11-12

The CIML Member

Dr. R. Schwartz
Direktor und Professor

2007-11-12

Identification of the pattern (continued)

Automatic electromechanical weighing instrument designed as

- automatic catchweighing instrument, checkweigher, weigh labeller or weigh-price labeller and equipped
- with external lever work (only weighing module series WS6H and WS10H) or
- without external lever work and
- with electromagnetic force compensation load cell (only weighing module series EM...) or
- with strain gauge load cells

and performed as

- single or multi interval instrument or
- single or multiple range instrument.

Common specifications

- Mode of operation: Start-Stop operation or operation in motion
- Power supply voltage: 230 V AC, 50/60 Hz
- Category: Y(a); Y(b); XIII(1); XIII(x ≥ 2)
- Number of ranges/intervals: 2^{1) 2)}
- Ratio between verification scale intervals: $\frac{e_{i+1}}{e_i} < 3$ ^{1) 2)}
- Tara: $T \leq 0,5 \cdot \text{Max}$ ³⁾
- Temperature range: 0 °C / +40 °C

¹⁾ This applies to multiple range instruments.

²⁾ This applies to multi-interval instruments.

³⁾ This specification applies only to weighing instruments with operation in motion (dynamic weighing) and with parameters being generally valid over the complete weighing range for all products. For single products having especially their own **Price Look Up** and/or their own product-specific parameters greater tare loads are allowed if they are approved by the verification. For start-stop weighing it is valid: $T \leq -\text{Max}$.

Specifications depending on, the module used

Category	Y(a); Y(b)	XIII(1); XIII(x) with x ≥ 2
Maximum belt speed v_{max}	≤ 1,47 m/s	
Number n of verification scale intervals	≤ 6000 / 5000 ^{1) 2) 4)} ≤ 5000 ⁴⁾	
Verification scale interval e	≥ 1 g	
Maximum load Max	≤ 15 kg	
Minimum load Min	≥ 20 g ^{5) 6)}	≥ 50 g ^{5) 6)}

Tab. 3-1: Technical data of the weighing modules of type WS10CW and WS20CW

Category	Y(a); Y(b)	XIII(1); XIII(x) with x ≥ 2
Maximum belt speed v_{max} in dependence of the load L	≤ 1,25 m/s (0 < L ≤ 1 kg) ≤ 1,15 m/s (1 < L ≤ 6 kg) ≤ 0,79 m/s (6 kg < L ≤ 10 kg) ≤ 0,93 m/s (10 kg < L ≤ 15 kg)	
Number n of verification scale intervals	≤ 2 • 3000 ^{1) 2) 4)} ≤ 3000 ⁴⁾	
Verification scale interval e	≥ 2 g	
Maximum load Max	≤ 15 kg	
Minimum load Min	≥ 40 g ^{5) 6)}	≥ 200 g ^{5) 6)}

Tab. 3-2: Technical data of the weighing modules of type WS20VB

Category	Y(a); Y(b)	XIII(1); XIII(x) with x ≥ 2
Maximum belt speed v_{max}	≤ 0,83 m/s	
Number n of verification scale intervals	≤ 2 • 3000 ^{1) 2) 4)} ≤ 6000 ⁴⁾	
Verification scale interval e	≥ 5 g	
Maximum load Max	≤ 30 kg	
Minimum load Min	≥ 100 g ^{5) 6)}	≥ 1 kg ^{5) 6)}

Tab. 3-3: Technical data of the weighing module of type WS6H

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Category	Y(a); Y(b)	XIII(1); XIII(x) with $x \geq 2$
Maximum belt speed v_{\max} in dependence of the load L	$\leq 0,67$ m/s ($0 < L \leq 3$ kg) $\leq 1,00$ m/s ($3 \text{ kg} < L \leq 60$ kg)	
Number n of verification scale intervals	$\leq 2 \cdot 1500$ ^{1) 2) 4)} ≤ 3000 ⁴⁾	$\leq 2 \cdot 3000$ ^{1) 2) 4)} ≤ 6000 ⁴⁾
Verification scale interval e	≥ 20 g	≥ 10 g
Maximum load Max		≤ 60 kg
Minimum load Min		≥ 3 kg ^{5) 6)}

Table 3-4: Technical data of the weighing module of type WS10H

Category	Y(a); Y(b)	XIII(1); XIII(x) with $x \geq 2$
Maximum belt speed v_{\max} in dependence of the load L	$\leq 1,47$ m/s ($0 < L \leq 0,05$ kg) $\leq 1,25$ m/s ($0,05 < L \leq 0,5$ kg) $\leq 0,92$ m/s ($0,5 < L \leq 2$ kg) $\leq 0,67$ m/s ($2 < L \leq 6$ kg) $\leq 0,50$ m/s ($6 \text{ kg} < L \leq 15$ kg)	
Number n of verification scale intervals		$\leq 6000 / 5000$ ^{1) 2) 4)} ≤ 6000 ⁴⁾
Verification scale interval e		≥ 1 g
Maximum load Max		≤ 15 kg
Minimum load Min	≥ 20 g ^{5) 6)}	≥ 50 g ^{5) 6)}

Tab. 3-5: Technical data of the weighing modules of type WS10VK1, WS10VK2, WS10VK5 and WS20VK

Category	Y(a); Y(b)	XIII(1); XIII(x) with $x \geq 2$
Maximum belt speed v_{\max} in dependence of the load L	$\leq 0,83$ m/s ($0 \text{ g} < L \leq 10$ g) $\leq 0,66$ m/s ($5 \text{ g} < L \leq 100$ g) $\leq 0,58$ m/s ($100 \text{ g} < L \leq 400$ g) $\leq 0,50$ m/s ($400 \text{ g} < L \leq 3750$ g)	$\leq 0,83$ m/s ($0 \text{ g} < L \leq 10$ g) $\leq 0,67$ m/s ($10 \text{ g} < L \leq 200$ g) $\leq 0,50$ m/s ($200 \text{ g} < L \leq 3750$ g)
Number n of verification scale intervals	$\leq 2 \cdot 1500$ ^{1) 2) 4)} ≤ 3750 ⁴⁾	$\leq 2 \cdot 3750$ ^{1) 2) 4)} ≤ 7500 ⁴⁾
Verification scale interval e	$\geq 0,2$ g	$\geq 0,1$ g
Maximum load Max		≤ 3750 g
Minimum load Min		≥ 10 g ^{5) 6)}

Tab. 3-6: Technical data of the weighing modules of type EM ...

- ⁴⁾ For weighing instruments of the categories XIII(x ≥ 2) and Y(b) the number of verification scale intervals is limited to $n_i \leq 1000$.
- ⁵⁾ The minimum capacity in case of start-stop-operation for category Y depends on the specification according to R51-1 No. 2.2.2. It may be applied to corresponding category X for start-stop-operation in order to achieve smaller minimum capacities. Greater minimum loads may also result from the verification.
- ⁶⁾ For weighing instruments of the category Y the minimum loads for the operation in motion depend on the specification under ⁴⁾ and in this table. The greater value has to be taken. For weighing instruments of category X the specifications of this table are valid. Greater minimum loads may also result from the verification.

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