

OIML Member State

The Netherlands

OIML Certificate



Number R76/2006-A-NL1-20.07 Project number 2213320 Page 1 of 4

Issuing authority NMi Certin B.V. Person responsible: M. Boudewijns

Applicant and Manufacturer

Cascade Corporation 2201 NE 201st Ave Fairview, Oregon 97024 United States of America

Identification of the certified type

A Non-automatic weighing instrument 23C-WFx-2A-yyyyy • 28C-WFx-3A-yyyyy 50C-WFx-3A-yyyyy where x = E, R or G, y = 0.9

Characteristics

See next page

This OIML Certificate is issued under scheme A.

Type

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

OIML R 76 - Edition 2006 for accuracy class (III) or (III)

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

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

Issuing Authority



NMi Certin B.V. Thiissewea 11 2629 JA Delft The Netherlands T +31 88 6362332 certin@nmi.nl www.nmi.nl

NMi Certin B.V., OIML Issuing Authority NL1 19 February 2020

Certification Board

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.









OIML Member State

The Netherlands

(+)

Number R76/2006-A-NL1-20.07 Project number 2213320 Page 2 of 4

The conformity was established by the results of tests and examinations provided in the associated OIML Reports:

For the Terminal and ADPD:

No. NMi-2213320-03 dated 19 February 2020 that includes 46 pages;

For the load cell:

- No. NMi-1902432-01 dated 11 September 2018 that includes 51 pages.
- No. NMi-2232947-01 dated 11 October 2018 that includes 46 pages.

For the non-automatic weighing instrument:

- No. NMi-2213320-01 dated 19 February 2020 that includes 11 pages;
- No. NMi-2213320-02 dated 19 February 2020 that includes 11 pages.

Characteristics of the non-automatic weighing instrument:

Accuracy class		
Maximum capacity	1000 kg ≤ Max ≤ 4500 kg	
Verification scale interval	e ≥ 1 kg	
Weighing ranges	Single interval Multi-interval	
Maximum number of scale intervals	n ≤ 2500	
Maximum number of 💼 partial weighing ranges	3	
Tare	$T \leq$ -Max % for instruments with one weighing range $T \leq$ -Max_1 for multi-interval instruments	



OIML Certificate





Number R76/2006-A-NL1-20.07 Project number 2213320 Page 3 of 4

Characteristics of Terminal:	(+)	
Configuration	Terminal with ADPD	
Weighing range(s)	Single interval Multi-interval	
Maximum number of partial weighing ranges	3	
Fraction of the maximum permissible error	0	
Maximum number of load platforms	1	
Temperature range	-10 °C / +40 °C	
Power supply voltage	6 V DC (supplied by 4x AA battery) 12 - 72 V DC (suitable for a road vehicle power supply)	
Software identification	Version number: 19.xxxx (xxxx is a number between 0000 and 9999)	

Characteristics of the Analog Data Processing Device (ADPD):

Configuration	Analog load cells	
Accuracy class		
Maximum number of scale intervals	n ≤ 3000	
Load cell excitation voltage	3,3 V DC	
Minimum signal input voltage	U _{min} = 0 mV	
Minimum input voltage per verification scale interval	0,5 μV	
Minimum load cell resistance	87 Ω	
Maximum load cell resistance	1050 Ω	
Fraction of the maximum permissible error	0,5	
Load cell connection	4 wire	
Maximum value of the cable length per cross wire section between the analog data processing device and load cells	In case a 4-wire connection is used the load cells are connected directly without junction box	
Temperature range	-10 °C / +40 °C	
Power supply voltage	7,4 V DC (supplied by battery)	
Software version number	CA19.10	





The Netherlands



Number R76/2006-A-NL1-20.07 Project number 2213320 Page 4 of 4

Characteristics of the load cell:	(+)		
Maximum capacity (E _{max})	1000 kg up to and including 5000 kg		
Minimum dead load	0 kg		
Accuracy Class	С		
Rated Output	2 mV/V	3 mV/V	
Maximum number of load cell intervals (n) (1)	3000		
Ratio of minimum LC Verification interval ⁽¹⁾ Y = E_{max} / v_{min}	10000		
Ratio of minimum dead load output return ⁽¹⁾ Z = E _{max} / (2 * DR)	3000		
Input impedance	387 Ω ± 20 Ω		
Temperature range	-10 °C / + 40 °C		
Fraction p _{LC}	0,7		
Humidity Class	СН		
Safe overload	150 % of E _{max}		
Output impedance	350 Ω ± 5 Ω		
Recommended excitation	10 V AC / DC		
Excitation maximum	15 V AC / DC		
Transducer material	Alloy steel or stainless steel		
Atmospheric protection	Silicon rubber		