



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R76/2006-A-NL1-25.17 revision 0  
Project number 3995309  
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Issuing authority

NMi Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant and  
Manufacturer

KERN & SOHN GmbH  
Ziegelei 1  
72336 Balingen-Frommern  
Germany

Identification of the  
certified type

An **Indicator**  
Type : TKFC-TM-C, TKXC-TM-A, TKXC-TM-EX2-A

Characteristics

See next page

This OIML Certificate is issued under scheme A.

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 76-1:2006** for accuracy class **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 quotation 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., OIML Issuing Authority NL1**  
11 August 2025

Certification Board

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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](http://www.oiml.org)

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



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

- No. NMI-2665791-01 dated 18 December 2023 that includes 41 pages;
- No. NMI-2665791-02 dated 18 December 2023 that includes 18 pages;
- No. NMI-2665791-03 dated 18 December 2023 that includes 13 pages;
- No. NMI-3678790-01 dated 18 December 2023 that includes 20 pages;
- No. NMI-3678790-02 dated 18 December 2023 that includes 19 pages;
- No. NMI-3808370-01 dated 26 June 2025 that includes 22 pages;
- No. NMI-3808370-02 dated 26 June 2025 that includes 16 pages.

## Characteristics of the indicator:

Configuration	Analog load cells
Accuracy class	III
Weighing ranges	Single interval Multi-interval Multiple range
Maximum number of scale intervals (per (partial) weighing range)	$n \leq 3000$
Maximum number of (partial) weighing ranges	2
Load cell excitation voltage	5 V DC
Minimum signal input voltage	$U_{\min} = 0 \text{ mV}$
Minimum input voltage per verification scale interval	1 $\mu\text{V}$
Minimum load cell resistance	87 $\Omega$
Maximum load cell resistance	1227 $\Omega$
Fraction of the maximum permissible error	0,5
Load cell interface	6-wire with sense technology, may be configured as 4-wire
Maximum value of the cable length per cross wire section between the indicator and the junction box or load cells	3759,9 m/mm <sup>2</sup> In case sense technology is not used the load cells are connected directly without junction box or extension cable
Temperature range	-10 °C / +40 °C
Electromagnetic environment class	E2
Power supply voltage	TKFC-TM-C 3,5 V – 6,5 V DC supplied by an AC/DC adapter Optional: 3,7 V DC rechargeable battery
	TKXC-TM-A 100-240 V AC 50/60 Hz Optional: 3,7 V DC rechargeable battery
	TKXC-TM-EX2-A 100-240 V AC 50/60 Hz or Optional: 3,7 V DC rechargeable battery



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Software identification (version number)

A.1.0.00 (legally relevant)  
b.x.x.xx (non-legally relevant)  
(x= 0..9)

Software:

- The identification numbers will be displayed at start-up, after pressing any button during display check.

## Revision History

Revision	Date	Change(s)
0	2025-08-11	Initial issue.