Evaluation report

Number **ER12273** revision 2
Project number 3808370

Issued by	NMi Certin B.V.
Relevant document	WELMEC 8.8 General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring instruments under the MID.
Producer	KERN & SOHN GmbH Ziegelei 1 72336 Balingen-Frommern Germany
Measuring instrument	An **Indicator** Type : TKFC-TM-C, TKXC-TM-A, TKXC-TM-EX2-A
Result	This Evaluation Report has been issued in support of certificate TC12273 revision 2, demonstrating that the measuring instrument has been tested and approved in accordance with the harmonized standards or normative documents as mentioned above and on the following pages. The executed evaluations, reference documents and reports used during the examination are described on the following pages.
Remark	This revision replaces the earlier versions.

Issue Date 26 June 2025

Manager Type Approval

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

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

Reproduction of the complete document only is permitted.

This document is digitally signed and sealed.

PRODUCTS
RvA C 681

1 Harmonized standards, normative documents and / or recommendations

The indicator is examined in accordance with the relevant document listed in this Evaluation Report, page 1.

The following harmonized standards, normative documents and / or recommendations are applied:

- OIML R 76 (2006) Non-automatic weighing instruments;
- EN 45501:2015 Metrological aspects of non-automatic weighing instruments;
- WELMEC 2 2021 Directives 2014/31/EU and 2014/32/EU: Common Application;
- WELMEC 2.10 2021 Technical Implementation of The Modular Evaluation for Non-Automatic Weighing and Automatic Weighing Instruments.

2 Reports

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

Test	Part / Type	Report	Remarks
Weighing performance tests, Influence factors tests, Checklist R76	Model: TKFC-TM-A n = 3000 e = 1 µV	NMi-2665791-01	TKFC-TM-A is the prototype model. TKFC-TM-C is the final production model with the additional alibi memory and real time clock, which was not present on the TKFC-TM-A.
Disturbance tests	Model: TKFC-TM-A n = 3000 e = 1 µV	NMi-2665791-02	Idem as above.
Disturbance tests	Model: TKFC-TM-C n = 3000 e = 1 µV	NMi-2665791-03	Additional alibi memory module and real time clock.
Disturbance tests	Model: TKXC-TM-A n = 3000 e = 1 µV	NMi-3678790-01	TKXC only allows two I/O modules to be attached. The EUT contains RS232 and USB modules.
Disturbance tests, voltage variations test	Model: TKXC-TM-A n = 3000 e = 1 µV	NMi-3678790-02	TKXC only allows two I/O modules to be attached. The EUT contains Analog out and Ethernet modules.
Disturbance tests, voltage variations test	Model: TKXC-TM-EX2-A n = 3000 e = 1 µV	NMi-3808370-01	AC power supply version
Disturbance tests, voltage variations test	Model: TKXC-TM-EX2-A n = 3000 e = 1 µV	NMi-3808370-02	External rechargeable Li-Ion battery version

A report can be a test report, an evaluation report, a type evaluation report and/or a pattern evaluation report.

3 Revision History

Project no.	Rev.	Date	Report / Document	Description / Remarks
2665791	0	2023-12-19	TC12273-1 NMi-2665791-01 NMi-2665791-02 NMi-2665791-03 NMi-3678790-01 NMi-3678790-02	Initial issue.
3858755	1	2024-09-26	-	Update the voltage description of type TKFC-TM-C.
3808370	2	2025-06-26	TC12273-2 NMi-3808370-01 NMi-3808370-02	Addition of model TKXC-TM-EX2-A and new power supply board