# OIML Certificate

**OIML Member State**
The Netherlands

Number R76/2006-A-NL1-20.69 revision 5
Project number 3595235


| | |
|---|---|
| Issuing authority | NMi Certin B.V.<br>Person responsible: M.Ph.D. Schmidt |
| Applicant and Manufacturer | METTLER-TOLEDO Changzhou Measurement Technology Ltd.<br>No.111, West TaiHu Road,<br>Changzhou, Jiangsu, 213125<br>China |
| Identification of the certified type | An **Indicator / Terminal**<br>Type : IND360 |
| 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 (I) or (II) or (III) or (IIII)

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**
30 March 2023

Certification Board

NMi Certin B.V.
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The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluations Reports:

- No. NMi-2493052-01 revision 1 dated 1 March 2021 that includes 56 pages;
- No. NMi-2493052-02 revision 1 dated 1 March 2021 that includes 15 pages;
- No. NMi-2493052-03 revision 1 dated 1 March 2021 that includes 21 pages;
- No. NMi-2493052-04 revision 1 dated 1 March 2021 that includes 20 pages;
- No. NMi-2659880-01 dated 27 October 2021 that includes 24 pages;
- No. NMi-3595235-01 dated 28 March 2023 that includes 19 pages.

**Characteristics of the indicator / terminal:**

| | | Digital load cells or Weighing modules | | |
|---|---|---|---|---|
| | | CANbus interface | LiNet interface | SICSPro interface |
| Accuracy class | OIML R 76 | (III) or (IIII) | | (I), (II), (III) or (IIII) |
| | OIML R 51 | Y(a) or Y(b)<br>XIII(x) or XIIII(2) | | Y(I), Y(II), Y(a) or Y(b)<br>XI(x), XII(x), XIII(x) or XIIII(2) |
| | OIML R 61 | Ref(0,2) | | |
| Weighing range(s) | | Single interval | Single interval<br>Multi-interval | Single interval<br>Multi-interval<br>Multiple range |
| Maximum number of scale intervals<br>(one weighing range) | | n ≤ 10000 divisions | | n ≤ 1000000 divisions |
| Maximum number of scale intervals<br>(multi-interval or multiple range) | | - | n ≤ 10000 divisions (per (partial) weighing range) | n ≤ 100000 divisions (per (partial) weighing range) |
| Maximum number of weighing ranges | | 1 | 3 | |
| Load cell power supply | | 12 V DC | | |
| Fraction of the maximum permissible error | | 0 | | |
| Temperature range | | -10 °C / +40 °C | | |
| Climatic environment | humidity | non-condensing | | |
| | intended location | Closed | | |
| Electromagnetic environment class | | E2 | | |
| Power supply voltage | | 100 – 240 V AC 50/60 Hz (only for Harsh version),<br>20 - 28 V DC (for all versions)<br>(not suitable for a road vehicle power supply) | | |

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| | | Analog load cells | Analog load cells with ISB | | |
|---|---|---|---|---|---|
| Accuracy class | OIML R 76 | (III) or (IIII) | | | |
| | OIML R 51 | Y(a) or Y(b)<br>XIII(x) or XIIII(2) | | | |
| | OIML R 61 | Ref(0,2) | | | |
| Weighing range(s) | | Single interval | | | |
| Maximum number of scale intervals | | n ≤ 10000 divisions | n ≤ 10000 divisions | | |
| Minimum signal input voltage | | $U_{min}$ = 0 mV | $U_{min}$ = 0 mV | | |
| Minimum input voltage per verification scale interval | | 0,3 µV | 0,25 µV | | |
| Load cell excitation voltage | | 5 V DC | 1,5 V DC | 2,3 V DC | 3,9 V DC |
| Minimum load cell resistance | | 43 Ω | 43 Ω | 87 Ω | 350 Ω |
| Maximum load cell resistance | | 1245 Ω | | | |
| Fraction of the maximum permissible error | | 0,5 | | | |
| Load cell interface | | 6-wire with sense technology,<br>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 | | 1571 m/mm$^2$<br>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 | | | |
| Climatic environment | humidity | non-condensing | | | |
| | intended location | Closed | | | |
| Electromagnetic environment class | | E2 | | | |
| Power supply voltage | | 100 – 240 V AC 50/60 Hz (only for Harsh version),<br>20 - 28 V DC (for all versions)<br>(not suitable for a road vehicle power supply) | | | |

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Software identification:

| Description | Version | Remarks |
|---|---|---|
| Analog mainboard | 1.xx.yyyy<br>2.xx.yyyy | -<br>Version 2.xx.yyyy updates the Alibi memory display |
| POWERCELL mainboard | 1.xx.yyyy<br>2.xx.yyyy | CANbus interface<br>Version 2.xx.yyyy adds Hysteresis Compensation function and updates the Alibi memory display |
| Precision mainboard | 1.xx.yyyy<br>2.xx.yyyy | SICSPro interface<br>Version 2.xx.yyyy updates the Alibi memory display |
| TLW mainboard | 1.xx.yyyy | LiNet interface |

(xx is a number between 00 and 99 representing major updates of the legally non relevant part of the software and yyyy is a number between 0000 and 9999 and represents minor updates of the legally non relevant part of the software)

**Revision History**

This revision replaces the previous versions.

| Revision | Date | Changes |
|---|---|---|
| 0 | 2020-12-24 | Initial issue |
| 1 | 2021-03-02 | Type evaluation reports revised because of editorial changes |
| 2 | 2021-03-04 | Editorial change to correct maximum load cell resistance |
| 3 | 2021-09-15 | Editorial change to include DC power supply voltage for all versions |
| 4 | 2021-10-29 | Adding optional ISB (Intrinsic safety barrier) |
| 5 | 2023-03-30 | Adding LiNet interface for TLW version and adding hysteresis compensation function for POWERCELL version.<br>Adding software version for the update of the Alibi memory display on the DIN, Panel and Harsh versions. |