OIML Certificate

OIML Member State
The Netherlands

Number R76/2006-A-NL1-20.70 revision 5
Project number 3708116

Issuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt
Applicant and Manufacturer	Mettler-Toledo GmbH Im Langacher 44 CH-8606 Greifensee Switzerland
Identification of the certified type	An **Indicator / Terminal / Analog data processing device** 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
17 May 2024

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated 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;
- No. NMi-3708116-01 dated 17 May 2024 that includes 41 pages;
- No. NMi-3708116-02 dated 17 May 2024 that includes 20 pages.

Characteristics of the indicator or terminal or analog data processing device:

		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) XIII(x) or XIIII(2)		Y(I), Y(II), Y(a) or Y(b) XI(x), XII(x), XIII(x) or XIIII(2)
	OIML R 61	Ref(0,2)		
Weighing range(s)		Single interval	Single interval Multi-interval	Single interval Multi-interval Multiple range
Maximum number of scale intervals (one weighing range)		n ≤ 10000 divisions		n ≤ 1000000 divisions
Maximum number of scale intervals (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), 20 - 28 V DC (for all versions) (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) XIII(x) or XIIII(2)			
	OIML R 61	Ref(0,2)			
Weighing range		Single interval			
Maximum number of scale intervals		n ≤ 10000 divisions			
Minimum signal input voltage		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, 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 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), 20 - 28 V DC (for all versions) (not suitable for a road vehicle power supply)			

The load cell may be implemented as a 12-wire connection in accordance
In this configuration:

- The minimum load cell resistance is 86 Ω;
- ISB shall not be used;
- Maximum value of the cable length per cross wire section between the indicator and the junction box is 433 m/mm2
- The compatibility of modules form shall be used in the same way as for a configuration where all load cells are connected in parallel using a 6-wire connection.

Software identification:

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

(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)

The software identification of the **indicator / terminal** is displayed after pressing the key sequence with the navigation keys:

For DIN version:

- From main screen press RIGHT to show the magnifying glass icon  and press RIGHT again, then press DOWN to until 'Main SW' is shown.

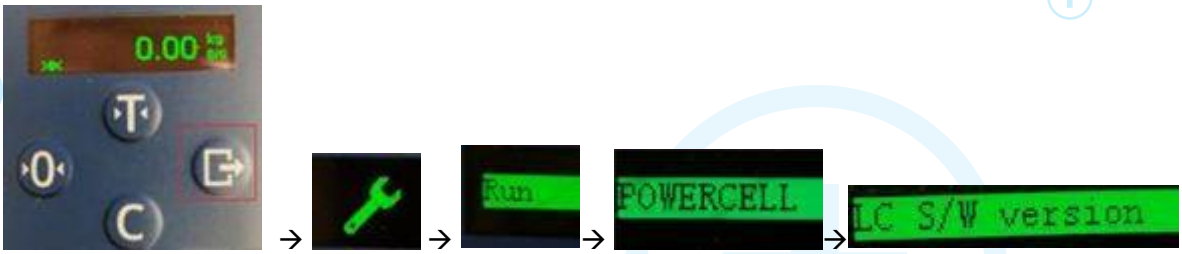
For Panel and Harsh versions:

- From main screen go with the navigation keys to the magnifying glass icon  and press ENTER key. In the menu the Software version is shown.

The software identification of **ADPD** will be displayed on the device that displays the primary indications;

In case a **digital load cell** is connected, the software version of this part is displayed after pressing the following key sequence with the navigation keys:
For DIN version:

- POWERCELL Load Cell Software Version
  1. Enter Setup mode from main screen by long press **"ENTER"** button
  2. Enter "**Maintenance**" menu
  3. Enter "**Run**" menu
  4. Enter "**POWERCELL**" menu,
  5. Enter "**SW version**": show software version according to the connected load cell



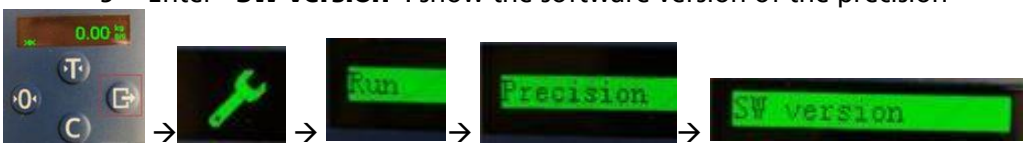
For Panel and Harsh version:

- From main screen go with the navigation keys to the weight icon and press ENTER key to enter the setup mode. ENTER “Maintenance” menu, ENTER “Run” menu and ENTER “Load cell n” menu (with ‘n’ a number of 1 or higher representing the amount of connected load cells) where the load cell serial number and software version is shown.

In case a **weighing module** is connected, the software version of this part is displayed after pressing the following key sequence with the navigation keys:

For DIN version:

- Precision Software Version
  1. Enter Setup mode from main screen by long press **"ENTER"** button
  2. Enter “**Maintenance**” menu
  3. Enter “**Run**” menu
  4. Enter "**Precision**" menu
  5. Enter "**SW version**": show the software version of the precision



For Panel and Harsh version:

- From main screen go with the navigation keys to the weight icon and press ENTER key to enter the setup mode. ENTER “Maintenance” menu, ENTER “Run” menu and ENTER “Precision” menu where the software version is shown.

Revision History

This revision replaces the previous versions.

Revision	Date	Change(s)
0	2020-12-24	Initial issue
1	2021-03-02	Type evaluation reports revised because of editorial changes
2	2021-09-15	Editorial change to include DC power supply voltage for all versions
3	2021-10-29	Adding optional ISB (Intrinsic safety barrier)

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4	2023-03-30	Adding LiNet interface for TLW version and adding hysteresis compensation function for POWERCELL version. Adding software version for the update of the Alibi memory display on the DIN, Panel and Harsh versions.
5	2024-05-17	Adding new model with 13 pins loadcell connection and new software.