

OIML Member State
The Netherlands

Number R76/2006-A-NL1-20.70 revision 4
Project number 3595235
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Issuing authority

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

Applicant and
Manufacturer

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Identification of the
certified type

An **Indicator / Terminal**
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 **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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
30 March 2023

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluation 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	Ⓜ or ⓂⓂ		Ⓛ, ⓁⓁ, Ⓜ or ⓂⓂ
	OIML R 51	Y(a) or Y(b) XIII(x) or XIII(2)		Y(I), Y(II), Y(a) or Y(b) XI(x), XII(x), XIII(x) or XIII(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)		

		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 XIII(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 connection	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)				

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

(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	2021-09-15	Editorial change to include DC power supply voltage for all versions
3	2021-10-29	Adding optional ISB (Intrinsic safety barrier)
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.