OIML Certificate

OIML Member State
The Netherlands

Number R76/2006-A-NL1-24.08 revision 1
Project number 3535045

Issuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt
Applicant and Manufacturer	SysTec Systemtechnik und Industrieautomation GmbH Ludwig-Erhard-Strasse 6 D-50129 Bergheim-Glessen Germany
Identification of the certified type	An **Indicator** Type : IT9-AC, IT9-DC
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) 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
11 October 2024

Certification Board

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

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

- No. NMi-3535045-01 dated 13 March 2024 that includes 42 pages;
- No. NMi-3535045-02 dated 13 March 2024 that includes 20 pages;
- No. NMi-3535045-03 dated 13 March 2024 that includes 32 pages;
- No. NMi-3535045-04 dated 13 March 2024 that includes 26 pages;
- No. NMi-3535045-06 dated 11 October 2024 that includes 26 pages;
- No. NMi-3535045-07 dated 11 October 2024 that includes 26 pages.

Characteristics of the indicator:

Configuration		Analog load cells
Accuracy class		(III) or (IIII)
Weighing ranges		Single interval Multi-interval Multiple range
Maximum number of scale intervals	Without overvoltage protection on the load cell interface	n ≤ 10000
	With overvoltage protection on the load cell interface	n ≤ 8750
Maximum number of (partial) weighing ranges		3
Load cell excitation voltage		5 V square wave
Minimum signal input voltage		U_{min} = 0 mV
Minimum input voltage per verification scale interval		0,2 µV
Minimum load cell resistance		43 Ω
Maximum load cell resistance		3300 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	Without overvoltage protection	2712,4 m/mm^2 In case sense technology is not used the load cells are connected directly without junction box or extension cable
	With overvoltage protection	2909,3 m/mm^2 with sense technology
Maximum number of load platforms		8

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Configuration	Analog load cells with zener barriers on the load cell interface
Accuracy class	(III) or (IIII)
Weighing ranges	Single interval Multi-interval Multiple range
Maximum number of scale intervals	$n \leq 6000$
Maximum number of (partial) weighing ranges	3
Load cell excitation voltage	2,44 V square wave
Minimum signal input voltage	U_{min} = 0 mV
Minimum input voltage per verification scale interval	0,33 µV
Minimum load cell resistance	87 Ω
Maximum load cell resistance	3300 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	5782,5 m/mm^2 In case sense technology is not used the load cells are connected directly without junction box or extension cable
Maximum number of load platforms	8

Configuration	Digital load cells or weighing module
Accuracy class	Matching the accuracy class of the digital load cell or weighing module
Weighing ranges	Single interval Multi-interval Multiple range
Maximum number of scale intervals	Equal to the maximum number of scale intervals of the digital load cell or weighing module
Maximum number of partial weighing ranges	3
Load cell power supply (in case the digital load cell is powered by the indicator)	12 V DC
Fraction of the maximum permissible error	0
Maximum number of load platforms	8

Configuration	All
Temperature range	-10 °C / +40 °C
Mechanical environment class	M3
Electromagnetic environment class	E3
Power supply voltage	100 – 240 V AC 50/60 Hz or 12 – 24 V DC (suitable for road vehicle power supply)

Software identification:

Description	Version	Checksum
SW ID (Scale driver)	AWX 1.x.x	7a78f806
SW ID (Scale)	5.x.x	2d582716
SW ID (Display)	1.x.x	46dae51c

"x" is a number between 0 and 99 and represents the non-legally relevant part of the software.

Software:
- The version and checksum for scale driver will be displayed after pressing the key sequence:
  - Press "i" → "compliance info" → "Scales".
- The other versions and checksums will be displayed after pressing the key sequence:
  - Press "i" → "compliance info" → "Terminal".

Revision History
This revision replaces the previous version.

Revision	Date	Changes
0	2024-03-22	Initial issue.
1	2024-10-11	Addition of reports and characteristics to allow the use of zener barriers