

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 029**

of **NMi Certin B.V.**

This annex is valid from: **21-03-2024 to 01-05-2028**

Replaces annex dated: **04-10-2023**

Location(s) where activities are performed under accreditation

Head Office

Thijssseweg 11
 2629 JA
 Delft
 The Netherlands

Location	Abbreviation/ location code
Thijssseweg 11 2629 JA Delft The Netherlands	De
Rotterdamseweg 402 A5/A6 2629 HH Delft The Netherlands	Ro
On site	O

No.	Material or product	Type of activity ¹	Internal reference number	Location
Measuring instruments for gas, liquid and electricity				
a.	Water meters	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Climate test • Durability test • Vibration test • EMC immunity • Software evaluation 	OIML R49 ISO 4064 Watermeters	De

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-BR010-lijst](#).
 If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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No.	Material or product	Type of activity ¹	Internal reference number	Location
b.	Gas meters and volume conversion devices	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Climate test • Durability test • Vibration test • External mechanical load • EMC immunity 	OIML R137 OIML R140 EN 1359 EN 12261 EN 12405 EN 12480 EN 14236 EN 16314 ISO 17089 EN 17526	De
c.	Electrical energy meters (Active and reactive DC)	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Climate test • Durability test • Vibration test • External mechanical load • EMC immunity • Overload test • Safety test 	IEC 62052-11 IEC 62052-31 IEC 62053-11/21/22/23/24/41 IEC 62055-31 SANS 1524-1 IEC 62059-32-1 EN 50470-1/2/3 OIML R46 Australian criteria NMI M 6-1 PTB-A 20.1 PTB-A 50.7 VDE Anwendungsregel, no. VDE-AR-E 2418-3-100, Annex A REA 6.2/6.3/6.5 Anlage 20 Abschnitt 1 Teil 2 der Eichordnung in der am 31.12.2014 geltenden Fassung	
d.	Ripple control receivers Time switches	Functionalities	IEC 62052-21 IEC 62054-11/21	
e.	Power Quality meters	Metrological Characteristics and Functionalities Conformity assessment of class A & S instruments	IEC 61000-4-30 IEC 62586-1 IEC 62586-2	
f.	Performance Measuring and Monitoring Devices	Metrological Characteristics and Functionalities	IEC 61557-1 IEC 61557-12	
g.	Separate and integrated auxiliary devices incl. Smart-Meter-Gateway for electricity measuring instruments	Functionalities	German : "Anlage 20 Abschnitt 1 Teil 2 der Eichordnung in der am 31.12.2014 geltenden Fassung" PTB-A 20.1 (12/2003) PTB-A 50.7 (02/2002) PTB-A 50.8 (12/2014)	

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No.	Material or product	Type of activity ¹	Internal reference number	Location
h.	Measuring systems for the continuous and dynamic measurement of quantities of liquids other than water	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Climate test • Durability test • Vibration test • EMC immunity • Vapour deposition test • Functional tests 	OIML R81 OIML R117	De
i.	Compressed gaseous fuel measuring systems for vehicles	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Climate test • Gas influence factors test • Vibration test • EMC immunity • Functional tests 	OIML R139	
j.	Material Measures – Capacity serving measures	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy 	OIML R138	Ro
k.	Automatic level gauges for measuring the level in fixed storage tanks	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Sensitivity • Hysteresis • Temperature test • EMC immunity • Functional tests 	OIML R85	De
l.	Measuring systems for the mass of liquids in tanks	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Sensitivity • Hysteresis • Temperature test • EMC immunity • Functional tests 	OIML R125	De

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m.	EV Charging Systems	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Climate test • Vibration test • External mechanical load • EMC immunity • Overload test • Safety test • Artificial Load: Performance tests (1320V 800A DC / 400V 320A AC) • Real load test (energy) up to and including 44 kW 	REA 6.8 REA 6-A PTB-A 50.7 VDE Anwendungsregel, no. VDE-AR-E 2418-3-100	De
		<ul style="list-style-type: none"> • Real load test (energy) above 44 kW 		O
n.	Zusatzeinrichtungen (communication adapter)	<ul style="list-style-type: none"> • Functional tests 	REA 6.6 Anlage 20 Abschnitt 1 Teil 2 der Eichordnung in der am 31.12.2014 geltenden Fassung PTB-A 20.1 PTB-A 50.7 PTB-A 50.8 (only communication adapter)	De

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Safety Testing				
o.	Electrical metering equipment	Product safety tests: <ul style="list-style-type: none"> • Single fault • Electrical shock • Mechanical Hazards • Mechanical stress • Spring Hammer test • Spread of fire • Glow Wire test • Temperature and heat tests • Ball Pressure test • Dust and water tests Dust: IP 1,2,3,4,5 (with suction) Water: IP 1,2,3,4 • Liberated gases and implosion of batteries 	IEC 62052-31	De
Weighing instruments				
p.	Non-automatic weighing instruments (≥ class I)	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Climate test • Functional tests • Checklist • EMC immunity 	OIML R60 OIML R76 EN 45501	De, Ro, O
q.	Automatic weighing instruments	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Climate test • Functional tests • Checklist • EMC immunity 	OIML R50 OIML R51 OIML R61 OIML R106 OIML R107	
r.	Automatic instruments for weighing road vehicles in motion and measuring axle loads	Type evaluation	OIML R134	
s.	Weighing in Motion	Type examination	NMi International WIM Standard (NIWS)	

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No.	Material or product	Type of activity ¹	Internal reference number	Location
t.	Dynamische weegbruggen	Typeonderzoek	OIML R134	De
Traffic measuring instruments				
u.	Taxi meters	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • EMC immunity • Climate test • Condensation test • Vibration test • Checklist 	OIML R21	De
v.	Breath analysers, Alcohol testers / locks	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • EMC immunity • Climate test • Atmospheric pressure • Checklist 	OIML R126 EN 50436-1 EN 50436-2 EN 15964 Regeling ademanalyse Regeling alcohol, drugs en geneesmiddelen in het verkeer Regeling voertuigen (alcoholsloten) Belgian "Koninklijk besluit betreffende de ademtesttoestellen en de ademanalysetoestellen, 21 april 2007" Belgian "Koninklijk besluit betreffende de installatie van het alcoholslot en het omkaderingsprogramma, 26 november 2010"	De
w.	Exhaust gas analysers	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • EMC immunity • Climate test • Condensation test • Vibration test • Atmospheric pressure • Checklist 	Regeling voertuigen OIML R99	De, O

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x.	Smoke meters	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • EMC immunity • Temperature test • Checklist 	Regeling voertuigen	De
y.	Speed measuring instruments -Radar -Laser -Detector -Section	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Functional tests • Accuracy • EMC immunity • Climate test • Checklist 	Regeling Meetmiddelen Politie 2022 Concept voorschriften meetmiddelen Politie Belgian “Koninklijk besluit betreffende de goedkeuring, de ijking en de installatie van de meettoestellen gebruikt om toezicht te houden op de naleving van de wet betreffende de politie over het wegverkeer en haar uitvoeringsbesluiten van 12 oktober 2010” United Kingdom: “The Speedmeter Handbook” (Fourth Edition), A Guide to Type Approval Procedures for Speedmeters, used for Road Traffic Law Enforcement in Great Britain. Publication No. 15/05 A Guide to Type-Approval Procedures for Automatic Distance/Time Speedmeters used for Road Traffic Law Enforcement in Great Britain. Publication No. 02/06 “The Traffic Light Camera Handbook” (Second edition) A guide to type approval procedures for traffic light cameras used for road traffic law enforcement in Great Britain. Publication No. 56/04	De, O
Auxiliary measuring instruments				
z.	Material measures Length measures	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy 	OIML R35	De

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aa	Dimensional measuring instruments Multi-dimensional measuring instruments	Metrological Characteristics and Functionalities <ul style="list-style-type: none"> • Accuracy • Climate test • EMC immunity • Checklist • Functional tests 	OIML R129	De

Electromagnetic Compatibility Immunity / Susceptability (EMI)

EMC.I.07	Electronic and electrical measuring instruments and ancillary equipment	Immunity to conducted disturbances, induced by radio-frequency fields 1 – 24 V 0.15 – 80 MHz	IEC 61000-4-6 C-PC EMC TSD RFCM	De
EMC.I.12		Radiated immunity Electrical Field 26 – 6000 MHz 30 V/m	IEC 61000-4-3 CWV EMC TSD IIF	
EMC.I.21		Electrostatic discharge immunity (ESD) Contact discharge 0- 8 kV Air discharge 0 – 15 kV	IEC 61000-4-2 CWV EMC TSD elektrostatische ontleding	
EMC.I.22		Electrical fast transient / burst immunity (EFT) 1 and 3 phase and I/O lines 0.25 – 4 kV	IEC 61000-4-4 CWV EMC TSD Burst	
EMC.I.23		Surge immunity 1 and 3 phase and I/O lines 0.2 – 4 kV	IEC 61000-4-5 CWV EMC TSD Surge	
EMC.I.24		Power frequency magnetic field immunity 50/60 Hz Up to 400 A/m continuous Up to 1000 A/m short duration	IEC 61000-4-8 CWV EMC TSD magnetisch veld	
EMC.I.26		Voltage dips, short interruptions and voltage variations Immunity Single phase equipment Up to 16 A 50 – 60 Hz	IEC 61000-4-11 CWV EMC TSD spanningsvariatie	
EMC.I.30		DC voltage ripple Immunity 17Hz – 1kHz	IEC 61000-4-17 CWV EMC TSD DC-ripple	

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.I.37	Electronic and electrical measuring instruments and ancillary equipment	DC Voltage dips, short interruptions and voltage variations Immunity	IEC 61000-4-29 CWV EMC TSD spanningsvariatie	De
Automotive				
EMC.I.27	Road vehicles - Electrical disturbances from conduction and coupling	Electric transient transmission via lines other than supply lines Immunity 150 V RF (repetitive frequency) 10 kHz	ISO 7637 Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	De
EMC.I.39		Electric transient transmission along supply lines Immunity 600 V RF (repetition frequency) 10 kHz	ISO 16750-2 ISO 7637 Part 2: Electrical transient conduction along supply lines only	

Note: Metrological characteristics and functionalities

The metrological characteristics of the measuring instrument are the estimation of errors of indication under rated operation conditions and in the presence of climatic disturbance (temperature, mechanical, electromagnetic). It comprises reproducibility, repeatability, discrimination and sensitivity, durability, reliability, suitability of the indication of the measuring instruments. The functionalities of the measuring instrument are protection of hardware and software against corruption, information to be borne by and to accompany the instrument, the indication of result, processing of data to conclude the trading transaction.

The requirements are supplemented, where appropriate, by specific instrument requirements in the directives (MI-001 until MI-010), OIML Document D11 General requirements for measuring instruments - Environmental conditions and WELMEC guidance and test documents: WELMEC WG 2 on NAWI, WG7 for software (in specific Guide 7.2), WG8 for horizontal items, WG 10 for Measuring systems for the continuous and dynamic measurement of quantities of liquids other than water, WG 11 for energy and gas meters, WG 12 for taximeters and WG 13 for water and thermal energy meters.

Active electrical energy meters and peripherals: Capacity service metering equipment – Common Application – Welmec Guide 8.9 issue 1 and Welmec Guide 8.18 issue 1