Evaluation report

Issued by	NMi Certin B.V.
Relevant document	Directive 2014/32/EU of the European parliament and of the council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of measuring instruments (MID).
Manufacturer	Schneider Electric 35 rue Joseph Monier 92500 Rueil Malmaison France
Measuring instrument	An **electrical energy meter** Type : iEM2435; iEM2455; EM2214
Result	The technical design of the electrical energy meter has been evaluated by carrying out examinations and tests in accordance with the relevant documents as mentioned on the following pages. As a result, it has been concluded that the electrical energy meter meets the essential requirements of Directive 2014/32/EU (MID). The examination has resulted in EU-type examination certificate number T12314 revision 4. The executed evaluations, reference documents and reports used during the examination are described on the following pages.
Remark	This revision replaces the earlier versions.

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Manager Type Approval

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This document is digitally signed and sealed.

1 Examinations according to the Directive

The activities listed in point 4 of Annex II, module B of Directive 2014/32/EU are executed with the results as stated in the table below.

Point	Activity	Performed and Passed [yes/no/N.A.]
4.1	Examine the technical documentation	Yes
4.2	Verify that specimens have been manufactured in conformity with the technical documentation	Yes
	Identify elements designed in accordance with the relevant provisions of the relevant documents	Yes
	Identify elements which have been designed without applying the relevant provisions of the relevant documents	N.A.
4.3	Carry out the appropriate examinations and tests, or have them carried out, to check whether, where the manufacturer has chosen to apply the solutions in the relevant documents, these have been applied correctly	Yes
	Applied harmonised standard / normative document	See chapter 2
4.4	Carry out the appropriate examinations and tests, or have them carried out, to check whether, where the manufacturer has chosen not to apply the solutions in the relevant documents, the solutions adopted by the manufacturer meet the corresponding essential requirements of this Directive	N.A.
4.5	Agree with the applicant on the location where the examinations and tests are carried out	Yes
4.6	Examine the technical documentation and supporting evidence to assess the adequacy of the technical design of the other parts of the measuring instrument	Yes

2 Harmonised standards, normative documents and / or guidance documents

The electrical energy meter is examined in accordance with the Directive listed in this Evaluation Report, page 1.

The following harmonised standards, normative documents and / or guidance documents are applied:

- EN 50470-1:2006 “Electricity metering equipment (a.c.) – Part 1: general requirements, tests and test conditions – Metering equipment (class indexes A, B and C)”;
- EN 50470-1:2006/A1:2018 “Electricity metering equipment (a.c.) – Part 1: general requirements, tests and test conditions – Metering equipment (class indexes A, B and C)”;
- EN 50470-3:2006 “Electricity metering equipment (a.c.) – Part 3: Particular requirements – Static meters for active energy (class indexes A, B and C)”;
- EN 50470-3:2006/A1:2018 “Electricity metering equipment (a.c.) – Part 3: Particular requirements – Static meters for active energy (class indexes A, B and C)”;

- IEC 62052-11:2003 “Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 11: Metering equipment”;
- IEC 62052-11:2003/A1:2016 “Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 11: Metering equipment”;
- IEC 62053-21:2003 “Electricity metering equipment (a.c.) – Particular requirements – Part 21: Static meters for active energy (classes 1 and 2)”;
- IEC 62053-21:2003/A1:2016 “Electricity metering equipment (a.c.) – Particular requirements – Part 21: Static meters for active energy (classes 1 and 2)”;
- IEC 62053-23:2003/A1 “Electricity metering equipment (a.c.) – Particular requirements – Part 23: Static meters for reactive energy (classes 2 and 3)”;
- IEC 62053-23:2003/A1:2016 “Electricity metering equipment (a.c.) – Particular requirements – Part 23: Static meters for reactive energy (classes 2 and 3)”;
- IEC 62052-31:2015 “Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 31: Product safety requirements and tests”;
- WELMEC 7.2, 2015 “Software Guide”;
- CLC/TR 50579:2012 “Electricity metering equipment (a.c.) - Severity levels, immunity requirements and test methods for conducted disturbances in the frequency range 2 kHz - 150 kHz”.

3 Reports

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

Test	Part / Type	Report	Remarks
Complete evaluation IEC	EM2214, iEM2435 and iEM2455 (PRO2-S, PRO2-Mod, PRO2-Mb)	2017F14-30-11140221001 issued by SIMT laboratory based in Shanghai, China	IEC 62052-11:2003 IEC 62053-21:2003
Complete evaluation MID	EM2214, iEM2435, iEM2455 (PRO2-S, PRO2-Mb, PRO2-Mod)	NMi-1900580-01	EN 50470-1:2006 EN 50470-3:2006 IEC 62052-11:2003 IEC 62053-21:2003
Software evaluation	EM2214, iEM2435, iEM2455 (PRO2-S, PRO2-Mb, PRO2-Mod)	NMi-1900580-02	WELMEC 7.2, 2015
Partial evaluation reactive energy	EM2214, iEM2435, iEM2455 (PRO2-S, PRO2-Mb, PRO2-Mod)	NMi-2553289-01	IEC 62052-11:2003 IEC 62053-23:2003
Safety evaluation	EM2214, iEM2435, iEM2455 (PRO2-S, PRO2-Mb, PRO2-Mod)	NMi-2623364-01	IEC 62052-31:2015
Partial evaluation	iEM2455	NMi-3937218-01	EN 50470-1:2006 EN 50470-3:2006 IEC 62052-11:2003 IEC 62053-21:2003 IEC 62053-23:2003

4 Additional Evaluations

This Evaluation Report is supplemented by the following additional evaluations:

Test	Part / Type	Report / Document	Remarks
Document evaluation	iEM2435, iEM2455	iEM2435-iEM2455 software TIC for TIC documents HW 101 to 234 and 104 to 234 for Schneider iEM2455 TIC for update V104-V234	Changed MBus and Modbus touch chip, increase baud rate, improve EMC performances
Document evaluation	iEM2435, iEM2455	TIC-IEM2435 2.34-2.341 TIC-IEM2435 2.341-2.35 TIC-IEM2455 V2.34-V2.341 TIC-IEM2455 V2.341-V2.35 TIC iEM2455 SW 3.44 to 3.45	Compatible component due to availability on the stock market. Changed the PCB reinforcement terminal screw pad. Software update due to small change in hardware register format
Document evaluation	iEM2345 iEM2455	101190104117-00 W022激光印刷 Schneider-IEM2435-KY12-JJ001-V2.1 技术中心 20250630 TIC document-2P -version 002 (V3.46 00A85F19) (V3.46 00A86F8A) + (modify the register address) Software TIC IEM2455-V3.48-3.49 20250308 101190104114-00 Schneider IEM2455 0287 UKCA NP (side) V1.1	Updated name plate iEM2345 Various changes in meter software related to Modbus registers and compatibility for 3 wire RS-485 communication. Software version 3.49 is used for certification. Updated name plate iEM2455
Document evaluation	EM2214	MP-175 Type Designations Statement Rev2 TIC-PRO2-V1.12-V1.12.01 20260212 EM2214 (PRO2-S) Technical Clarification	Added meter variant METSEEM2214 to certificate with Hardware version V1.12.01 The PCB hardware changes are judged to have no influences on EMC (electromagnetic compatibility) on legal metrology. Declaration differences between meter variants. Declaration is used to cover compliance with IEC 62052-31:2015.

5 Revision History

Project number	Rev.	Date	Report / Document	Description / Remarks
3065647	0	12-04-2022	T12314-1 2017F14-30-11140221001 issued by SIMT laboratory based in Shanghai, China NMi-1900580-01 NMi-1900580-02	First issue. Parallel of T11019R3 certificate
3561380	1	06-09-2022	iEM2435-iEM2455 software TIC for TIC documents HW 101 to 234 and 104 to 234 for Schneider iEM2455 TIC for update V104-V234	Revision for update of software version and checksum on both meter types
3669587	2	13-07-2023	T12314-2 TIC-IEM2435 2.34-2.341 TIC-IEM2435 2.341-2.35 TIC-IEM2455 V2.34-V2.341 TIC-IEM2455 V2.341-V2.35 TIC iEM2455 SW 3.44 to 3.45	Docfolder Compatible component due to availability on the stock market. Changed the PCB reinforcement terminal screw pad. Software update because of small change in hardware register format
3937318	3	21-07-2025	T12314-3 NMi-2553289-01 NMi-2623364-01 NMi-3937218-01 101190104117-00 W022激光印刷 Schneider-IEM2435-KY12-JJ001-V2.1 技术中心 20250630 TIC document-2P -version 002 (V3.46 00A85F19) (V3.46 00A86F8A) + (modify the register address) Software TIC IEM2455-V3.48-3.49 20250308 101190104114-00 Schneider IEM2455 0287 UKCA NP (side) V1.1	Docfolder Added reference report reactive energy Added reference report Safety evaluation Testing and software document evaluation for 3 wire RS-485 communication. Manufacturer name and address change. Updated name plates iEM2435 and iEM2455 Rewritten sealing method

Project number	Rev.	Date	Report / Document	Description / Remarks
4040632	4	16-04-2026	T12314-4 MP-175 Type Designations Statement Rev2 TIC-PRO2-V1.12-V1.12.01 20260212 EM2214 (PRO2-S) Technical Clarification	Docfolder Added meter variant METSEEM2214 (based on Inepro PRO2-S meter variant) Added reference to IEC 62052-31:2015 test report NMi-2623364-01 for EM2214 and Inepro PRO2-S meter variants