

CERTIFICATE

Certificate registration number: G3.2107.450.2.A5

Certificate holder: Ningbo Sanxing Smart Electric Co., Ltd.

Product designation: P12S01,

Hardware version meter: S12S01 R3-01 M18, module: SX8.067.090824,

Firmware version 3.04.05

Certification date: July 16th, 2021

This certificate indicates the above mentioned product successfully completed certification testing with regards to the reference specification ITU G.9903 (08-2017). The optional feature coherent mode of the G3-PLC protocol is also covered by this certification.

The certificate applies to certification profile CENELEC A and the device was configured as a PAN-Device.

Test cases have been performed as described in the test report referred to below. This certificate is granted on account of tests conducted by TÜV Rheinland in Yokohama, Japan in July 2021. The results and remarks can be found in the complete test report.

Applied tests	Performed by	Document evidence
Conformance, interoperability and performance testing according to the test specification referenced by the test report	TÜV Rheinland Japan	JP21SZEW 001

The device tested is a G3-PLC CENELEC A 1-phase meter. The meter is equipped with the G3-PLC certified platform REL-G3PLC-CPX3 with certificate no. G3.1907.304.1.A4. Modifications of the platform have been done by the platform manufacturer. The Protocol Implementation Conformance Statement in the Annex includes the PICS related to performance and is an integral part of this certificate. This certificate is valid from July 16th, 2021.

The certificate is only applicable to the product described above and permits the use of the G3-PLC™ logo as laid down in the G3-PLC logo license agreement.

This certificate does not imply assessment of the production. This certificate shall not be defined, or used as a guarantee covering quality of a product which includes G3-PLC. The liability of the Alliance and the test laboratory or any of her representatives is excluded for any damages or losses of the certified company.

Paris, July 16th, 2021

For the G3-PLC Alliance:

Marc Delandre Chairman MI - Wes

Madeleine Francillard Chair Certification Program





Annex 1: Protocol Implementation Conformance Statement (PICS)

Feature implementation statement

Name	Value	Description		
BAND_PLAN	CENELEC A	Indicate the band-plan supported by the device.		
FEATURE_PAN_COORDINATOR	FALSE	Indicate if the device is a PAN-Coordinator (true) or a normal device (false).		
FEATURE_COHERENT_MODULAT ION	TRUE	Indicate if coherent modulation is supported.		
FEATURE_EAP_SERVER	FALCE	Indicate if an EAP-PASK server is implemented by the DUT.		
	FALSE	Apply only if FEATURE_PAN_COORDINATOR = true.		
FEATURE_D8PSK_MODULATION	TRUE	True / False		
FEATURE_ROUTING	TRUE	Indicate if the routing is implemented by the IUT.		
FEATURE_SECURITY	F1	Indicate the security implemented by the device. Possible values are: F1, F2.		
FEATURE_ACTIVE_SCAN	TRUE	Indicate if the active scan process is done by the IUT after power-up.		
FEATURE_PREAMBLE_COEXISTE NCE_MECHANISM	FALSE	Indicate if the preamble-based coexistence mechanism is used by the IUT.		
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Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (1/2)

The device tested is a G3-PLC CENELEC A 1-phase meter. Testing was performed on phase 1.

Operating voltage applied for certification testing was 230V/50Hz.

Name	Value Offic	Description		
PICS	relat	ed to	o performance	
	thro	ugh	vallable vendor only.	

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Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

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Annex 3: Copy of test report cover sheet

Prüfbericht - Produkte



Test Report - Products				· momana		
Prüfbericht-Nr.: Test report no.:	JP21SZEW 001	Auftrags-Nr.: Order no.:	150244572	10 Seite 1 von 49 Page 1 of 49		
Kunden-Referenz-Nr.: Client reference no.:	150046983 /1: 1 phase meter	Auftragsdatum: Order date:	2021-06-30			
Auftraggeber: Client:	Ningbo Sanxing Smart Electric Co.,Ltd. No.16,Fengwan Road,Cicheng Town,Jiangbei District,Ningbo,315034,P.R.China					
Prüfgegenstand: Test item:	Meter					
Bezeichnung / Typ-Nr.: Identification / Type no.:	P12S01					
Auftrags-Inhalt: Order content:	G3-PLC Certification Test					
Prüfgrundlage: Test specification:	G3 PLC Conformance Tests Specification v0.32 G3-PLC 1-to-1 Interoperability Tests Specification v0.13 G3-PLC Performance Test Suite Specification v0.27 G3-PLC Certification Test Procedures v2.0					
Wareneingangsdatum: Date of sample receipt:	2021-07-05		2323			
Prüfmuster-Nr.: Test sample no:	A003085689		PURM			

Date of sample receipt:

Prüfmuster-Nr.:
Test sample no:

Prüfzeitraum:
Testing period:

Ort der Prüfung:
Place of testing:

Prüflaboratorium:
Testing laboratory:

Prüfergebnis*:
Pass



geprüft von: tested by:

Test result*:

Datum:

Date: 2021-07-15

Tester

genehmigt von: authorized by:

Ausstellungsdatum:

Issue date: 2021-07-15

Stellung / Position:

4. Gaiter

Stellung / Position:
Sonstiges / Other:

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:*

Prüfmuster vollständig und unbeschädigt Test item complete and undamaged

egende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) egend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s)

N/A = nicht anwendba N/A = not applicable N/T = nicht getestet

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a.m. test sample. Without permission of the test center this test report is not permitted to be
in plicated in extracts. This test report does not entitle to carry any test mark.

TÜV Rheinland Japan Ltd., Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan Mail: g3plc@tuv.com · Web: www.tuv.com/

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