

C E R T I F I C A T E

Certificate registration number: G3.2108.459.2.A5

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

Product designation: P34S02 CT,

Hardware version meter: S34S02 R2-04 M22, module: SX8.067.090827,

Firmware version 3.04.05

Certification date: August 27th, 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 August 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	JP21SG4R 001

The device tested is a G3-PLC CENELEC A 3-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 August 27th, 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, August 27th, 2021

For the G3-PLC Alliance:

Marc Delandre Chairman 4-4-5

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	FALSE	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.
		J. M.S.

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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 3-phase meter communicating on 1 phase. Testing was performed on phase 1.

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

name	value	Unit	Description	
PICS	relat	ed to	o performance vailable vendor only.	-
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Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

Name	Value	Unit	Description
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Annex 3: Copy of test report cover sheet

Prüfbericht - Produkte



Test Report - Products					
Prüfbericht-Nr.: Test report no.:	JP21SG4R 001	Auftrags-Nr.: Order no.:	150244586 10	Seite 1 von 49 Page 1 of 49	
Kunden-Referenz-Nr.: Client reference no.:	150046989/3: 3 phase CT	Auftragsdatum: Order date:	2021-06-11		
Auftraggeber: Client:	Ningbo Sanxing Smart Electric Co.,Ltd. No.16,Fengwan Road,Cicheng Town,Jiangbei District,Ningbo,315034,P.R.China				
Prüfgegenstand: Test item:	Three Phase Meter				
Bezeichnung / Typ-Nr.: Identification / Type no.:	P34S02 CT				
Auftrags-Inhalt: Order content:	G3-PLC Certification Test				
Prüfgrundlage:	G3 PLC Conformance Tests Specification v0.32				
Test specification:	G3-PLC 1-to-1 Interoperability Tests Specification v0.13				
	G3-PLC Performance Test Suite Specification v0.27				
	G3-PLC Certification Test F	rocedures v2.0			

Date of sample receipt:	2021-07-27
Prüfmuster-Nr.: Test sample no:	A003099520
Prüfzeitraum: Testing period:	2021-08-12 – 2021-08-18
Ort der Prüfung: Place of testing:	4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224- 0021, Japan
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japan Ltd.
Prüfergebnis*:	Pass



geprüft von: Martin Zietz tested by:

genehmigt von: authorized by:

Shuji Saito

Date: 2021-08-24

Ausstellungsdatum: Issue date: 2021-08-24 4. Garter

Stellung / Position: Tester Stellung / Position: Reviewer

Sonstiges I Other:

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Test item complete and undamaged

P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/T = nicht getestet P(ass) = passed a.m. test specification(s)F(ail) = failed a.m. test specification(s)

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 duplicated in extracts. This test report does not entitle to carry any test mark

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