

Certificate registration number: G3.2301.555.2.A6

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

Product designation: S34U28, Hardware version SX8.067.060993, Firmware version 3.05.04

Certification date: January 5th 2023

This certificate indicates the above mentioned product successfully completed certification testing with regards to the G3-PLC Alliance reference specification 06/2021. 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 December 2022. 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	JP22MSQH 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+TRG with certificate no. G3.2205.512.1.A6. 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 January 5th 2023.

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, January 5th 2023

For the G3-PLC Alliance:

Marc Delandre Chairman



Madeleine Francillard Chair Certification Program



Authenticity of this certificate can be verified at https://g3-plc.com/g3-plc-certification/certified-products/ Page 1 of 6

Annex 1: Protocol Implementation Conformance Statement (PICS)

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Feature implementation statement

Name	Value	Description
BAND_PLAN	CENELEC A	Indicate the band-plan supported by the device
BAND_PLAN_RF	N/A	Indicate the RF band plan(s) supported by the device
FEATURE_HYBRID_RF	FALSE	Indicate if Hybrid PLC&RF feature is supported
FEATURE_PAN_ COORDINATOR	FALSE	Indicate if the device is a PAN- Coordinator (true) or a normal device (false)
FEATURE_COHERENT_ MODULATION	TRUE	Indicate if coherent modulation is supported
FEATURE_EAP_SERVER		Indicate if an EAP-PASK server is implemented by the DUT
	FALSE	Apply only if FEATURE_PAN_COORDINATOR = true
FEATURE_D8PSK_ MODULATION	TRUE	Indicate if D8PSK modulation is supported
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_ COEXISTENCE_MECHANISM	FALSE	Indicate if the preamble-based coexistence mechanism is used by the IUT $\int A$
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Certificate registration number: G3.2301.555.2.A6

Page 2 of 6

Annex 2: Protocol Implementation Conformance Statement (PICS)

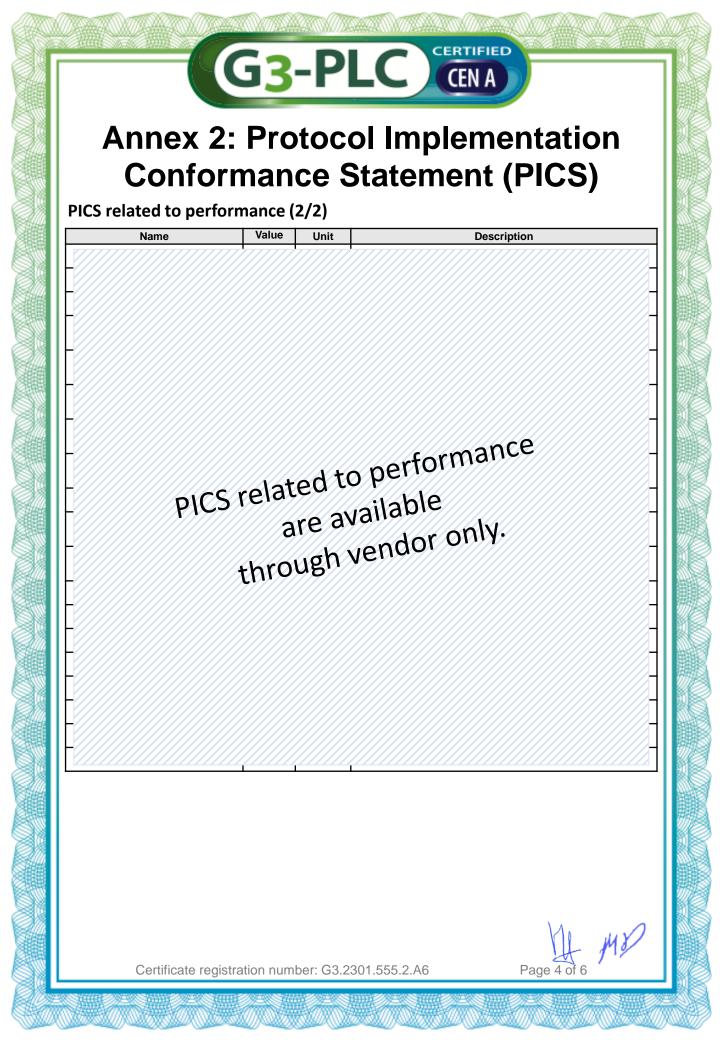
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PICS related to performance (1/2)

The device tested is a G3-PLC CENELEC A 3-phase meter, communicating on 3 phases. Testing was performed on phase 1.

Operating voltage applied for certification testing was 3AC400V (3x230V L-N) / 50Hz.

Name Value Unit Description PICS related to performance are available through vendor only. If mo Certificate registration number: G3.2301.555.2.A6 Page 3 of 6



Annex 3:

G3-PLC CENTIFIED

Copy of test report cover sheet

Prüfbericht-Nr.: Test report no.:	JP22MSQH 001	Auftrags-Nr.: Order no.:	15026	7726 10	Seite 1 von 57 Page 1 of 57	
Kunden-Referenz-Nr.: Client reference no.:	1776121_18024784	Auftragsdatum: Order date:	2022-	12-06		
Auftraggeber: Client:	Ningbo Sanxing Smart Elect No. 16, Fengwan Road, Cicł		i Distric	t, Ningbo, P.F	R. China	
Prüfgegenstand: Test item:	Smart Meter (CENELEC A)					
Bezeichnung / Typ-Nr.: Identification / Type no.:	S34U28					
Auftrags-Inhalt: Order content:	G3-PLC Certification Test					
Prüfgrundlage: Test specification:	G3-PLC Alliance - Conformance Tests Suite Specification - v0.37 G3-PLC Alliance - 1to1-PHY-Interoperability-Tests-Specification-v0.14 G3-PLC Alliance - Performance Test Suite Specification - v0.27 G3-PLC Certification Test Procedures version 6.02					
Wareneingangsdatum: Date of sample receipt:	2022-12-13					
Prüfmuster-Nr.: Test sample no:	A003388874-003					
Prüfzeitraum: Testing period:	2022-12-24 – 2022-12-28	1000 / 1000 /	IP54 3K7(-40°C-70 (100)A 3×230(400V mp/kWh Cl. 8 EN 50 mp/kWh Cl. 1 IEC 6 mp/kvath Cl. 1 IEC 6 mp/kvath Cl. 2 IEC 6	470-1/3: 2006		
Ort der Prüfung: Place of testing:	4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224- 0021, Japan					
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japan Ltd.	-0-	Ends one	-	-0)-	
Prüfergebnis*: Test result*:	Pass					
geprüft von: tested by:	<u>/</u> 2	genehmigt von: authorized by:		66	rito	
Datum: // // // // // // // // // // // // //	Martin Zietz	Ausstellungsdate Issue date: 2023				
Stellung / Position:	Tester	Stellung / Position		Shuji Saito Reviewer		
Sonstiges / Other.						
Zustand des Prüfgegens Condition of the test item a	at delivery:	Prüfmuster vollstä Test item complet	e and u	ndamaged		
* Legende: P(ass) = entspricht o * Legend: P(ass) = passed a.m		nicht o.g. Prüfgrundlage(n) test specification(s)		nicht anwendbar not applicable	N/T = nicht getestet N/T = not tested	
auszugsweise vervielfältigt This test report only relates to	ich nur auf das o.g. Prüfmuster werden. Dieser Bericht berechti the a. m. test sample. Without per st report does not entitle to carry a	gt nicht zur Verwend rmission of the test ce	ung ein	es Prüfzeicher	ıs.	
,	., Global Technology Assessment Cen		Teuzuki-k	u Vokobama 224	-0021 Japan	