

Certificate registration number: G3.1912.364.2.A3

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

Product designation: S34U18 CT, Hardware version S34U18 S09.Y1.J0, Firmware version 3.03.00

Certification date: December 11th, 2019

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 October-November 2019. 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	50281595 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. G3.1806.216.1.A3. 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 December 11th, 2019.

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, December 11th, 2019

For the G3-PLC Alliance:

Marc Delandre

Chairman

Madeleine Francillard Chair Certification Program



Authenticity of this certificate can be verified at http://www.g3-plc.com/certified-products-platforms/ Pag

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.	
FEATURE_PAN_COORDINATOR	FALSE	Indicate if the device is a PAN-Coordinator (true) or a normal device (false).	
FEATURE_COHERENT_MODULAT	TRUE	Indicate if coherent modulation is supported.	
	FALSE	Indicate if an EAP-PASK server is implemented by the DUT.	
FEATURE_EAP_SERVER	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)

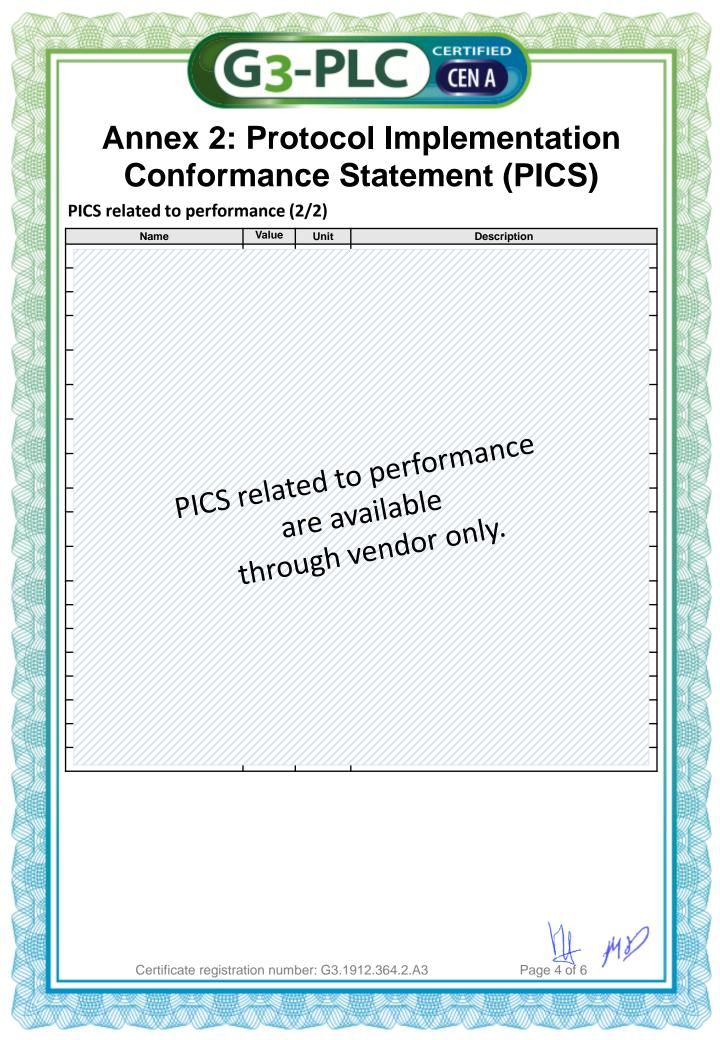
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PICS related to performance (1/2)

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 230V L-N (400V L-L)/50Hz.

Name Value Unit Description PICS related to performance are available through vendor only. If mo Certificate registration number: G3.1912.364.2.A3 Page 3 of 6



Annex 3:

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Copy of test report cover sheet

Produkte Products		🛕 TÜVRheir	nland®
Prüfbericht-Nr.: Test Report No.:	50281595 001	45044450	von <i>of</i> 42 von <i>of</i> 42
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: 2019-07-25 Order date:	
Auftraggeber: Client:		art Electric Co., Ltd. ad, Cicheng Town, Jiangbei District, Ning	ibo, CHINA
Gegenstand der Prüfung: Test item:	3-phase CENELEC-	A meter	
Bezeichnung / Typ-Nr.: Identification / Type No.:	S34U18 CT		
Auftrags-Inhalt: Order content:	G3-PLC Certification	Test	
Prüfgrundlage: Test specification:	G3-PLC 1-to-1 Intero G3-PLC Performanc	e L1-L2 Tests Suite Specification v0.25 perability Tests Suite Specification v0.10 e Test Suite Specification v0.23 Test Procedures v1.14	
Wareneingangsdatum: Date of receipt:	2019-08-22		
Prüfmuster-Nr.: Test sample No.:	A001015024	Status ct	
Prüfzeitraum: Testing period:	2019-11-22 – 2019-1	-27	
Ort der Prüfung: Place of testing:	TÜV Rheinland Japa Global Technology Assessment Center 4 Kita-Yamata, Tsuzuki Yokohama 224-0021,	25-2 ku	
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japar	Jacker real	
Prüfergebnis: Test results:	The test item passed test specification(s).	the	
Geprüft von		Kontrolliert von	
Tested by:	Man	Reviewed by:	twoger
2019-12-04, Tam Tran Tha		2019-12-04, Atsuhiro Endo	
DatumName / SDateName / F			terschrift mature
Sonstiges / Other Aspects Zustand des Prüfgegenst Condition of the test item a *Legende: 1 = sehr gut	andes bei Anlieferung:	Prüfmuster vollständig und unbeso Test item complete and undamaged 4 = ausreichend 5 = mangelhaft	
P(ass) = entspricht o.g. Prüfgrun	ndlage(n) F(ail) = entspricht nicht 2 = good 3 = satisfactory	4 = austeicnend 5 = mangeman o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = 4 = sufficient 5 = poor pecification(s) N/A = not applicable N/T = not test	nicht getestet
auszugsweise vervielfa This test report only relates to	altigt werden. Dieser Bericht the a. m. test sample. Without	uster und darf ohne Genehmigung der Prüfst berechtigt nicht zur Verwendung eines Prüfzei bermission of the test center this test report is nor rt does not entitle to carry any test mark	ichens.

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