

Certificate registration number: G3.1908.311.2.C3

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

Product designation: P12G04, Hardware version: P12G07 S11.Y1.J0 M, Firmware version 3.03.00

Certification date: August 6th, 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 FCC Multipurpose Worldwide 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 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	50249820 003

The device tested is a G3-PLC FCC 1-phase meter. The meter is equipped with the G3-PLC certified platform REL-G3PLC-CPX3 with certificate no. G3.1806.218.1.C3. 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 6th, 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, August 6th, 2019

For the G3-PLC Alliance:

Marc Delandre

Chairman

NES

Madeleine Francillard Chair Certification Program



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

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Annex 1: Protocol Implementation Conformance Statement (PICS)

G3-PLC FCC

Feature implementation statement

Name	Value	Description	
BAND_PLAN	FCC	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.	
FEATURE_EAP_SERVER	FALSE	Indicate if an EAP-PASK server is implemented by the DUT.	
		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.	
		A Ma	

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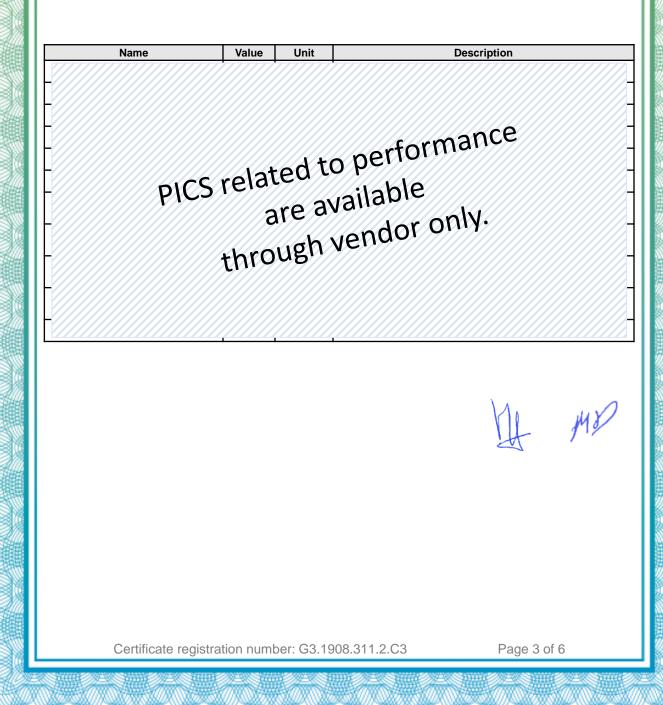
Annex 2: Protocol Implementation Conformance Statement (PICS)

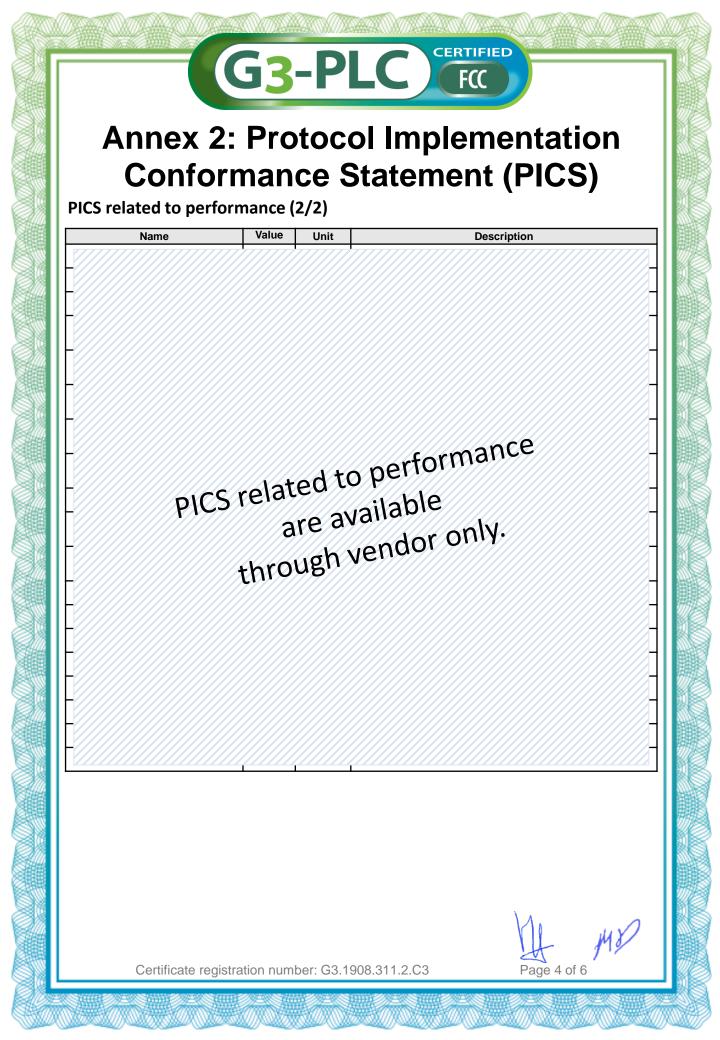
G3-PLC FCC

PICS related to performance (1/2)

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

Operating voltage applied for certification testing was 220V / 50Hz.





Annex 3:

G3-PLC FCC

Copy of test report cover sheet

Produkte Products 🛕 TÜVRheinland®

Prüfbericht-Nr.: Test Report No.:	50249820 003	Auftrags-Nr.: Order No.: 15011	1206 Seite 1 v Page 1 v		
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	2019-04-30		
Auftraggeber: Client:	0 0	mart Electric Co., Ltd. oad, Cicheng Town, Jiang	abei District Ningh	O CHINA	
	No. 10, 1 engwan N	bad, orcherig rown, orang	Juer District, Mingu		
Gegenstand der Prüfung: Test item:	1-phase meter (FC	1-phase meter (FCC PAN Device)			
Bezeichnung / Typ-Nr.: Identification / Type No.:	P12G04				
Auftrags-Inhalt: Order content:	G3-PLC Certificatio	on Test			
Prüfgrundlage: Test specification:	G3-PLC 1-to-1 Inter G3-PLC Performan	nce L1-L2 Tests Suite Spe roperability Tests Suite S ce Test Suite Specificatio on Test Procedures v1.13	pecification v0.10		
Wareneingangsdatum: Date of receipt:	2019-07-12	1	P12G04		
Prüfmuster-Nr.: Test sample No.:	A000960792		S		
Prüfzeitraum: Testing period:	2019-07-16 – 2019-	07-18			
Ort der Prüfung: Place of testing:	TÜV Rheinland Jap Global Technology Assessment Center Kita-Yamata, Tsuzul Vokohamo 224 002	4-25-2 ki-ku	Visite Provide Sectors		
Prüflaboratorium: Testing laboratory:	Yokohama 224-002 TÜV Rheinland Japa				
Prüfergebnis: Test results:	The test item passed test specification(s).	d the	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Geprüft von Tested by:	Mau	Kontrolliert von Reviewed by:	Astu	offer	
2019-08-02, Tam Tran Thar	nh	2019-08-02, Atsul	niro Endo	2	
DatumName / StDateName / Po				nterschrift gnature	
Sonstiges / Other Aspects:					
		er 50249820 002. The "Ha 2G07 S11.Y1.J0 M" as the		2 General	
Zustand des Prüfgegensta Condition of the test item at		Prüfmuster vollst Test item complete	ändig und unbesc e and undamaged	hädigt	
P(ass) = entspricht o.g. Prüfgrund Legend: 1 = very good 2	= good 3 = satisfactory	4 = sufficient	5 = poor		
auszugsweise vervielfäl This test report only relates to t	t sich nur auf das o.g. Prüfn Itigt werden. Dieser Bericht the a. m. test sample. Without	specification(s) N/A = not applica nuster und darf ohne Geneh berechtigt nicht zur Verwen permission of the test center ort does not entitle to carry an	migung der Prüfstell dung eines Prüfzeich this test report is not p	le nicht hens. permitted to	
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