

#### Certificate registration number: G3.2006.393.2.A4

Certificate holder: Hangzhou Sunrise Technology Co., Ltd

**Product designation:** ST12, Hardware version DF76BX, Firmware version V6.1.3.65\_6.0.0.3

Certification date: June 9<sup>th</sup>, 2020

This certificate indicates the above mentioned product successfully completed certification testing with regards to the reference specification ITU G.9903 (08-2017).

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 May 2020. 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	60370369 001	

The device tested is a G3-PLC CENELEC A 1-phase meter. The meter is equipped with the G3-PLC certified platform Vango PLC V630x+V600x with certificate no. G3.1909.316.1.A4. 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 June 9<sup>th</sup>, 2020.

The certificate is only applicable to the product described above and permits the use of the G3-PLC<sup>™</sup> 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, June 9th, 2020

Marc Delandre

Chairman

For the G3-PLC Alliance:



Madeleine Francillard Chair Certification Program



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

### Annex 1: Protocol Implementation Conformance Statement (PICS)

G3-PLC CENTIFIED

#### 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	FALSE	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.	
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Certificate registration number: G3.2006.393.2.A4

Page 2 of 6

## Annex 2: Protocol Implementation Conformance Statement (PICS)

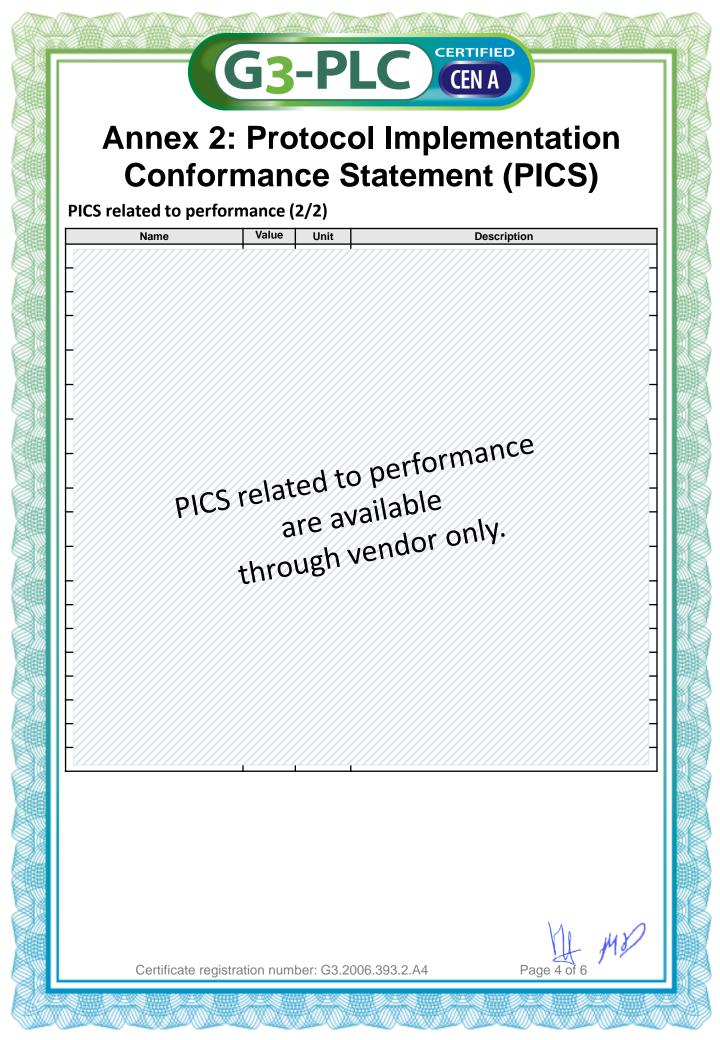
G3-PLC CENA

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 220V/50Hz.

Name Value Unit Description PICS related to performance are available through vendor only. If mo Certificate registration number: G3.2006.393.2.A4 Page 3 of 6



# Annex 3:

G3-PLC CENA

#### Copy of test report cover sheet

Produkte Products **TÜV**Rheinland®

Prüfbericht-Nr.: Test Report No.:	60370369 001	Auftrags-Nr.: Order No.:	150225211	Seite 1 von of 41 Page 1 von of 41	]
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftrags Order dat		05	
Auftraggeber: Hangzhou Sunrise Technology Co., Ltd					
Client:	No.9, Longtan Roa Zhejiang, China	No.9, Longtan Road, Cangqian Street,Yuhang District, Hangzhou, Zhejiang, China			
Gegenstand der Prüfung Test item:	G3-PLC CENELEC	G3-PLC CENELEC-A 1-phase meter			
Bezeichnung / Typ-Nr.: Identification / Type No.:	ST12				
Auftrags-Inhalt: Order content:	G3-PLC Certificatio	on Test			
Prüfgrundlage: Test specification:	G3-PLC Conforma G3-PLC 1-to-1 Inte G3-PLC Performan G3-PLC Certificatio	roperability Test Sice Test Sice Spe	Suite Specification cification v0.27		
Wareneingangsdatum: Date of receipt:	2020-05-07				-
Prüfmuster-Nr.: Test sample No.:	A002838651			1	
Prüfzeitraum: Testing period:	2020-05-30 - 2020-0	95-31	ST12	T.	
<b>Ort der Prüfung:</b> Place of testing:	<b>TÜV Rheinland Jap</b> Global Technology Assessment Center Kita-Yamata, Tsuzuk Yokohama 224-0021	4-25-2 <i-ku< td=""><td></td><td></td><td></td></i-ku<>			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japa	an Ltd.			
Prüfergebnis: Test results:	The test item passed test specification(s).	d the			
Geprüft von Tested by:	Man	Kontrolli Reviewee		Atuoger	
	Stellung Unterschrift		05, Atsuhiro Endo Name / Stellun		-
Date Name / Sonstiges / Other Aspects		Date	Name / Position	Signature	-
Zustand des Prüfgegensi Condition of the test item a *Legende: 1 = sehr gut		Test item o	e <b>r vollständig und</b> complete and undar nend 5 = ma		-
Legend: 1 = very good P(ass) = passed a.m. test specific		4 = sufficien specification(s) N/A =	nt 5 = po not applicable N/T =	oor = not tested	_
auszugsweise vervielf This test report only relates to	ht sich nur auf das o.g. Prüf fältigt werden. Dieser Berich o the a. m. test sample. Withou licated in extracts. This test rep	t berechtigt nicht zu It permission of the te	r Verwendung eines est center this test rep	Prüfzeichens.	щè
Certificate registra	ation number: G3.20	06 393 2 A4		Page 5 of 6	