

Certificate registration number: G3.1912.365.2.C4v2

Certificate holder: LONGI METER CO., LTD.

Product designation: LGG160K, Hardware version M015003A013001, Firmware version ESG3SD-V000001

Certification date: December 18th, 2019

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 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 October and 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	50305062 002

The device tested is a G3-PLC FCC 1-phase meter. The meter is equipped with the G3-PLC certified platform ESPLC-FCC with certificate no. G3.1911.348.1.C4. 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 18th, 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 18th, 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/ Page

Page 1 of 6

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	FALSE	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.	
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Certificate registration number: G3.1912.365.2.C4v2

Page 2 of 6

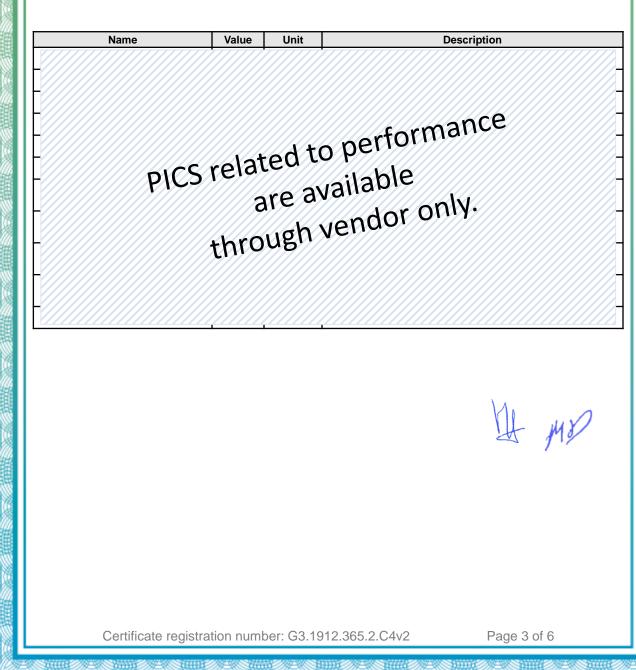
Annex 2: Protocol Implementation Conformance Statement (PICS)

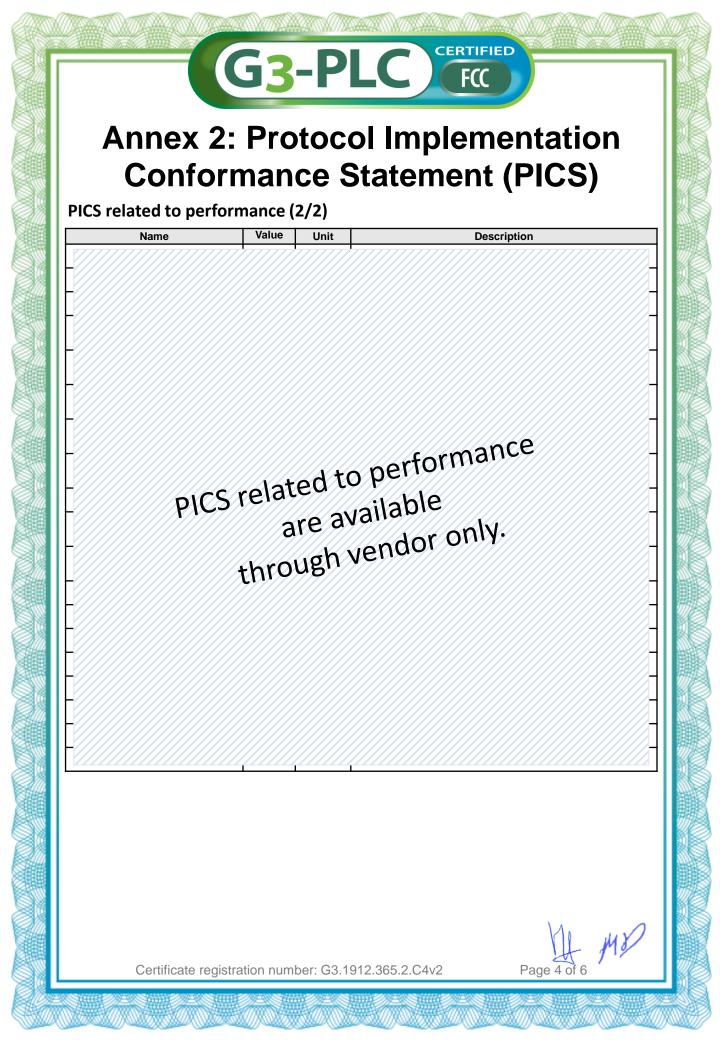
G3-PLC FCC

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: Copy of test report cover sheet

G3-PLC FCC

Produkte Products		L	ዾ τΰν	Rheinland®
Prüfbericht-Nr.: Test Report No.:	50305062 003	Auftrags-Nr.: Order No.:	150117055	Seite 1 von <i>of</i> 41 <i>Page</i> 1 von <i>of</i> 41
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftragsd Order date		0-15
Auftraggeber: Client:	LONGI METER CO.			
	No.25 Guangming F	Road, Finchuan Ch	lina	
Gegenstand der Prüfung Test item:	g: G3-PLC 1-phase FC	C meter		
Bezeichnung / Typ-Nr.: Identification / Type No.:	LGG160K			
Auftrags-Inhalt: Order content:	G3-PLC Certificatio	n Test		
Prüfgrundlage: Test specification:	G3-PLC Conforman G3-PLC 1-to-1 Inter G3-PLC Performan G3-PLC Certificatio	operability Test Su ce Test Suite Spec	ite Specificatio	
Wareneingangsdatum: Date of receipt:	2019-10-28		LONG	
Prüfmuster-Nr.: Test sample No.:	A001031427			3
Prüfzeitraum: Testing period:	2019-10-31 – 2019-1	1-05		
Ort der Prüfung: Place of testing:	TÜV Rheinland Jap Global Technology Assessment Center ₄ Kita-Yamata, Tsuzuk Yokohama 224-0021	I-25-2 i-ku	1000mp.vm Cit S. 4	
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japa	n Ltd.		
Prüfergebnis: Test results:	The test item passed test specification(s).	the	4	
Geprüft von	, , , , ,	Kontrollie	rt von	
Tested by:	Slaw	Reviewed	by:	Studger
2020-02-06, Tam Tran Th			6, Atsuhiro Endo	
	Stellung Unterschrift Position Signature	Datum Date	Name / Stellu Name / Positio	
	s: t for report number 503050/ R CO., LTD." to "LONGI ME			
Zustand des Prüfgegens Condition of the test item	standes bei Anlieferung: at delivery:		vollständig und mplete and unda	d unbeschädigt amaged
*Legende: 1 = sehr gut P(ass) = entspricht o.g. Prüfgr Legend: 1 = very good P(ass) = passed a.m. test specif	$\begin{array}{llllllllllllllllllllllllllllllllllll$	4 = ausreiche t o.g. Prüfgrundlage(n) I 4 = sufficient specification(s) N/A = n	N/A = nicht anwend 5 =	mangelhaft Ibar N/T = nicht geteste poor ⁻ = not tested
Dieser Prüfbericht bezi auszugsweise verviel This test report only relates	eht sich nur auf das o.g. Prüfr fältigt werden. Dieser Bericht to the a. m. test sample. Without blicated in extracts. This test rep	nuster und darf ohne berechtigt nicht zur permission of the test	e Genehmigung d Verwendung eine t center this test re	er Prüfstelle nicht es Prüfzeichens. port is not permitted to
Certificate registr	ation number: G3.19	12.365.2.C4v2		Page 5 of 6