

C E R T I F I C A T E

Certificate registration number: G3.2009.409.2.C4

Certificate holder: Hexing Electrical Co., Ltd.

Product designation: HXE310,

Hardware version P60147R2100102, Firmware version V6.1.3.65 6.0.0.3

Certification date: September 24th, 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 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 August 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	NN20FOQN 002

The device tested is a G3-PLC FCC 3-phase meter. The meter is equipped with the G3-PLC certified platform Vango PLC V630x+V600x with certificate no. G3.1909.318.1.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 September 24th, 2020.

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, September 24th 2020

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/

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Annex 1: Protocol Implementation Conformance Statement (PICS)

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 ION	FALSE	Indicate if coherent modulation is supported.	
FEATURE FAR OFFICE	FALSE	Indicate if an EAP-PASK server is implemented by the DUT.	
FEATURE_EAP_SERVER		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)

PICS related to performance (1/2)

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

Operating voltage applied for certification testing was 230V L-L (400V L-L) / 50Hz.

PICS related to performance are available are available through vendor only.	Name	Value	Unit	Description
	pics	relat a thro	ed to re av	o performance vailable vendor only.

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Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

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Annex 3: Copy of test report cover sheet

Products



7 7044010			
Prüfbericht-Nr.: Test Report No.:	NN20FOQN 002	Auftrags-Nr.: Order No.: 150228579	Seite 1 von <i>of</i> 41 Page 1 von <i>of</i> 41
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: 2020- Order date:	08-18
Auftraggeber:	Hexing Electrical Co	,	
Client:	1418 Moganshan Ro City, China	oad, Shangcheng Industrial Zon	e, 310011,Hangzhoi
Gegenstand der Prüfur Test item:	ng: G3-PLC FCC 3-phas	se meter	
Bezeichnung / Typ-Nr.: Identification / Type No.:	HXE310		
Auftrags-Inhalt: Order content:	G3-PLC Certification	n Test	
Prüfgrundlage: Test specification:	G3-PLC 1-to-1 Intere G3-PLC Performand	ce L1-L2 Test Suite Specification opperability Test Suite Specificative Test Suite Specification v0.27 in Test Procedures v1.14	ion v0.13
Wareneingangsdatum: Date of receipt:	2020-08-19	G3-F1.C Mindrel	MET TODAYO
Prüfmuster-Nr.: Test sample No.:	A002897224	HEXING	
Prüfzeitraum: Testing period:	2020-08-28 — 2020-08	3-29	
Ort der Prüfung: Place of testing:	TÜV Rheinland Japa Global Technology Assessment Center 4 Kita-Yamata, Tsuzuki Yokohama 224-0021,	-25-2 ISC 6003-31 CL LIA N	agims
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japar	Ltd.	NO COLO
Prüfergebnis: Test results:	The test item passed test specification(s).	the	
Geprüft von Tested by:	Man	Kontrolliert von Reviewed by:	Stronger
2020-09-23, Tam Tran T	hanh	2020-09-23, Atsuhiro End	otot
Date Name	/ Stellung Unterschrift / Position Signature	DatumName / StelDateName / Posi	
Sonstiges / Other Aspection is correction in		FOQN 001. "Hardware" unde	r "1.2 General Dl

This is correction report for report No. NN20FOQN 001. "Hardware" under "1.2 General DU Information" on page 4 was changed to "P60147R2100102" as the client requested.

Condition of the test item at delivery:

Test item complete and undamaged

*Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft

P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet

Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor

P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a.m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark

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Zustand des Prüfgegenstandes bei Anlieferung:

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Prüfmuster vollständig und unbeschädigt