

#### CERTIFICATE

Certificate registration number: G3.1808.230.2.C3

Certificate holder: Hexing Electrical Co., Ltd.

Product designation: HXE330,

Hardware version PS34EFDLSRNE001-1V05, Firmware version 5.0

Certification date: August 24th, 2018

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 2018. The results and remarks can be found in the complete test report.

Applied tests	Performed by	Document evidence 50154033 001	
Conformance, interoperability and performance testing according to the test specification referenced by the test report	TÜV Rheinland Japan		

The device tested is a G3-PLC FCC 3-phase meter. The meter is equipped with the G3-PLC certified platform ENIGMA with certificate no. G3.1805.211.1.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 24th, 2018.

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 24th, 2018

For the G3-PLC Alliance:

Bernard Lassus Chairman

G3-PLC Alliance Madeleine Francillard Chair Certification Program

Authenticity of this certificate can be verified at <a href="http://www.g3-plc.com/certified-products-platforms/">http://www.g3-plc.com/certified-products-platforms/</a>

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# **Annex 2: 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	TRUE	Indicate if coherent modulation is supported.	
FEATURE FAR SERVER	FALOE	Indicate if an EAP-PASK server is implemented 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)**

#### PICS related to performance (1/2)

The device tested is a G3-PLC FCC 3-phase meter communicating on 1-phase. 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	relat a thro	ed t re a' ugh	o performance vailable vendor only.	- - - - - -

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

PICS related to performance (2/2)

Name	Value	Unit	Description
PICS	elat a thro	ed to re av	o performance vailable vendor only.

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### Annex 3: Copy of test report cover sheet

Products



Products		L	<b>TUV</b> Rh	einland®
Prüfbericht-Nr.: Test Report No.:	50154033 001	Auftrags-Nr.: Order No.:	044400004	eite 1 von of 44 age 1 von of 44
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftrags Order dat		6
Auftraggeber: Client:	Hexing Electrica	l Co., Ltd.		
Gegenstand der Prüfung: Test item:	3-phase meter (F	CC PAN Device)		
Bezeichnung / Typ-Nr.: Identification / Type No.:	HXE330			
Auftrags-Inhalt: Order content:	G3-PLC Certifica	tion Test		
Prüfgrundlage: Test specification:	G3-PLC 1-to-1 Int G3-PLC Performa	ance L1-L2 Tests Si eroperability Tests s ance Test Suite Spe tion Test Procedure	Suite Specification cification v0.23	0.25 v0.10
Wareneingangsdatum: Date of receipt:	2018-05-28			1.
Prüfmuster-Nr.: Test sample No.:	A000748377		-	
Prüfzeitraum: Testing period:	2018-07-05 - 2018	-07-09	Element	
<b>Ort der Prüfung:</b> Place of testing:	TUV Rheinland Ja Global Technology Assessment Cente Kita-Yamata, Tsuz Yokohama 224-00	r er 4-25-2 zuki-ku	HEAD OF STREET	E
Prüfla boratorium: Testing laboratory:	TÜV Rheinland Jap	oan Ltd.	0	-
Prüfergebnis: Test results:	The test item pass test specification(s			4.
Geprüft von Tested by:	Man	Kontrolli Reviewed	l by:	Sturger
2018-07-10, Tam Tran Than			3, Atsuhiro Endo	Unterschrift
Datum Name / St	ellung Unterschr			

Zustand des Prüfgegenstandes bei Anlieferung:				Prüfmuster vollständig und unbeschädigt			
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) = en	itspricht o.g. Prü	ifgrundlage(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) = pas	ssed a.m. test sp	ecification(s)	F(ail) = failed a.m. test specia	fication(s) N/A = not appl	licable 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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