

C E R T I F I C A T E

Certificate registration number: G3.1910.331.2.A4

Certificate holder: Inhemeter Co., Ltd.

Product designation: IHM-4000,

Hardware version INHE-CPGR2-40-DC, Firmware version 3.04.00

Certification date: October 25th, 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 CENELEC A and the device was configured as a PAN-Coordinator.

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 September – October 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	50269959 001

The device tested is a G3-PLC CENELEC A 3-phase data concentrator. The data concentrator is equipped with the G3-PLC certified platform REL-G3PLC-CPX3 with certificate no. G3.1907.305.1.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 October 25th, 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, October 25th, 2019

For the G3-PLC Alliance:

Marc Delandre Chairman Who

Madeleine Francillard Chair Certification Program





Annex 1: Protocol Implementation Conformance Statement (PICS)

Feature implementation statement

Name	Value	Description	
BAND_PLAN	CENELEC A	Indicate the band-plan supported by the device.	
FEATURE_PAN_COORDINATOR	TRUE	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 CERVER	TDUE	Indicate if an EAP-PASK server is implemented by the DUT.	
FEATURE_EAP_SERVER	TRUE	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.	
		The may	



Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (1/2)

The device tested is a G3-PLC CENELEC A 3-phase data concentrator communicating on 3 phases. 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 to	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

Produkte



Products		i o vitile i i i a	iriu
Prüfbericht-Nr.: Test Report No.:	50269959 001	Auftrags-Nr.: Seite 1 vor Order No.: 150113469	
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: 2019-07-03 Order date:	
Auftraggeber: Client:	Inhemeter Co., Ltd. 8/F&9/F, 1A, Softwar Shenzhen, China	e Park, Southern Hi-Tech Zone, Nanshan Dis	strict,
Gegenstand der Prüfung: Test item:	G3-PLC CENELEC-A	Data Concentrator	
Bezeichnung / Typ-Nr.: Identification / Type No.:	IHM-4000		
Auftrags-Inhalt: Order content:	G3-PLC Certification	Test	
Prüfgrundlage: Test specification:	G3-PLC 1-to-1 Intero G3-PLC Performance	e L1-L2 Test Suite Specification v0.30 perability Test Suite Specification v0.13 e Test Suite Specification v0.27 Test Procedures v1.13	
Wareneingangsdatum: Date of receipt:	2019-09-10		
Prüfmuster-Nr.: Test sample No.:	A001001435	11.	
Prüfzeitraum: Testing period:	2019-09-26 — 2019-10	• •	
Ort der Prüfung: Place of testing:	TÜV Rheinland Japai Global Technology Assessment Center 4- Kita-Yamata, Tsuzuki- Yokohama 224-0021,	25-2 ku	
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japan	Ltd.	
Prüfergebnis: Test results:	The test item passed test specification(s).	the	
Geprüft von Tested by:	Man	Kontrolliert von Reviewed by:	July
2019-10-08, Tam Tran Than		2019-10-08, Atsuhiro Endo	
Datum Name / S	tellung Unterschrift	Datum Name / Stellung Unters	chrift

Datum Name / Stellung Unterschrift Name / Position Date Name / Position Signature Signature

Sonstiges / Other Aspects:

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Test item complete and undamaged Condition of the test item at delivery:

*Legende: 1 = sehr gut 5 = mangelhaft 3 = befriedigend 4 = ausreichend 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 = good3 = 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

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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