

Certificate registration number: G3.2204.504.2.C5

Certificate holder: Shijiazhuang Kelin Electric Co., Ltd.

Product designation: DTZY1277, Hardware version V1.02, Firmware version ESG3SD-V000001

Certification date: April 2nd, 2022

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 March 2022. 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	JP217J4I 001

The device tested is a G3-PLC FCC 3-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 April 2nd 2022.

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, April 2nd

Marc Delandre

Chairman

For the G3-PLC Alliance:

Madeleine Francillard Chair Certification Program



Authenticity of this certificate can be verified at https://g3-plc.com/g3-plc-certification/certified-products/ 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.	
		Indicate if an EAP-PASK server is implemented by 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)

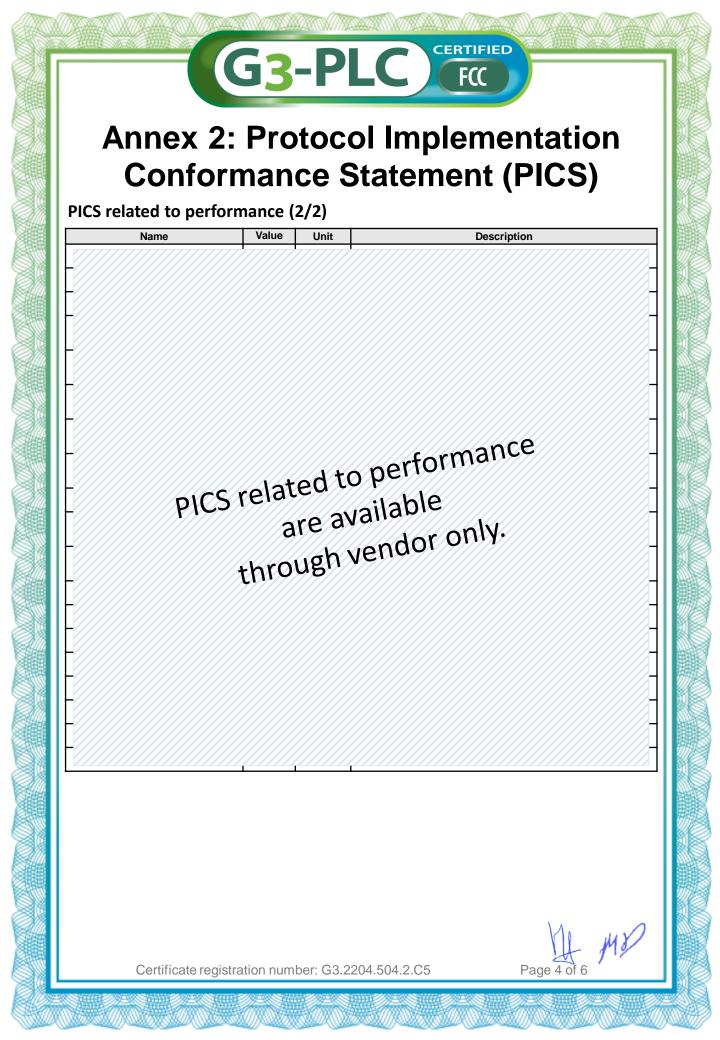
G3-PLC FCC

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 3AC400V (3x230V L-N)/50Hz.

Name Value Unit Description PICS related to performance are available through vendor only. If mo Certificate registration number: G3.2204.504.2.C5 Page 3 of 6



Annex 3: Copy of test report cover sheet

G3-PLC FCC

Prüfbericht - Produkte Test Report - Products				neinland®	
Prüfbericht-Nr.: Test report no.:	JP217J4I 001	Auftrags-Nr.: Order no.:	150249258 10	Seite 1 von 48 Page 1 of 48	
Kunden-Referenz-Nr.: Client reference no.:	DTZY1277	Auftragsdatum: Order date:	2021-11-25		
Auftraggeber: Client:	Shijiazhuang Kelin Electric Co., Ltd., Nanjiangbi Hongqi Street, Shijiazhuang Hebei Province, P.R. China				
Prüfgegenstand: Test item:	Three Phase Four Wire Sma	rt Energy Meter			
Bezeichnung / Typ-Nr.: Identification / Type no.:	DTZY1277				
Auftrags-Inhalt: Order content:	G3PLC				
Prüfgrundlage: Test specification:	G3 PLC Conformance Tests G3-PLC 1-to-1 Interoperabili G3-PLC Performance Test S G3-PLC Certification Test Pr	ty Tests Specification v	on v0.13		
Wareneingangsdatum: Date of sample receipt:	2022-03-15	100	GRES Mendue an in S. aglims		
Prüfmuster-Nr.: Test sample no:	A003227495-002	to	There Prove from View Small Every Main		
Prüfzeitraum: Testing period:	2022-03-17 - 2022-03-25	0	All	0	
Ort der Prüfung: Place of testing:	4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224- 0021, Japan				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japan Ltd.				
Prüfergebnis*: Test result*:	Pass	l			
geprüft von: tested by:	/-,	genehmigt von: authorized by:	1	haiter	
Datum: Date: 2022-03-29	Martin Zietz	Ausstellungsdat	um. ·		
Stellung / Position:	Tester	Stellung / Positio	- ,		
Sonstiges / Other:					
Zustand des Prüfgegens Condition of the test item a	at delivery:	Test item complet	indig und unbeschäc e and undamaged		
* Legende: P(ass) = entspricht o * Legend: P(ass) = passed a.m		nicht o.g. Prüfgrundlage(n) test specification(s)	N/A = nicht anwendbar N/A = not applicable	N/T = nicht getestet N/T = not tested	
auszugsweise vervielfältigt This test report only relates to duplicated in extracts. This test	ich nur auf das o.g. Prüfmuster werden. Dieser Bericht berechtig the a.m. test sample. Without per st report does not entitle to carry a	gt nicht zur Verwend mission of the test ce ny test mark.	dung eines Prüfzeiche enter this test report is r	ens. not permitted to be	
vos TÜV Rheinland Japan Ltd	., Global Technology Assessment Cen Mail: g3plc@tuv.com		Tsuzuki-ku Yokohama 22	24-0021, Japan	
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