G3-PLC CERTIFIED FCC

C E R T I F I C A T E

Certificate registration number: G3.2212.545.2.C5v2

Certificate holder: EYKON AG

Product designation: E450 G3-IDIS 1-phase
Hardware version ZCXi1x0xQ S5,
Firmware version CPX3_04_05

Certification date: December 12th 2022

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 Laboratoire des Applications Numériques (LAN) in Tauxigny, France in November 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	Laboratoire des Applications Numériques (LAN)	LAN22AF037

The device tested is a G3-PLC FCC 1-phase meter. The meter is equipped with the G3-PLC certified platform REL-G3PLC-CPX3 with certificate no. G3.1907.306.1.C4. Modifications of the platform have been done by the platform manufacturer. 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 12th 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, December 12th 2022

For the G3-PLC Alliance:

Marc Delandre
Chairman

Madeleine Francillard
Chair Certification Program

G3-PLC Alliance

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_MODULATION	TRUE	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	Indicate if D8PSK modulation is supported
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_COEXISTENCE_MECHANISM	FALSE	Indicate if the preamble-based coexistence mechanism is used by the IUT

Annex 2: Protocol Implementation Conformance Statement (PICS)

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 230V/50Hz.

Name	Value	Unit	Description
PICS related to performance are available through manufacturer only.			

Annex 2: Protocol Implementation Conformance Statement (PICS)

PICS related to performance (2/2)

Name	Value	Unit	Description

PICS related to performance
are available
through manufacturer only.

Annex 3:
Copy of test report cover sheet

G3-PLC Alliance

G3-PLC Product Certification Test Report

Vendor Name	Landis+Gyr AG
Model Name	E450 G3-IDIS 1-Phase
Serial N°	**61589656**
HW version	**ZCXi1x0xQ S5**
FW version	**CPX3_04_05**
Test Report #	**TR_LAN22AF037 Ed.00**
Date	**December 1, 2022**

CONF Tests Specification	**version 0.32.**	**15/03/2021**
CONF Tests Suite	**version 2.11.p2.**	**04/2021**
IOT Tests Specification	**version 0.13.**	**28/12/2018**
IOT Tests Suite	**version 2.6.p2.**	**03/2021**
PERF Tests Specification	**version 0.27.**	**05/03/2019**
PERF Tests Suite	**version 2.11.p2.**	**04/2021**
Test Tool	**version 2.3**	
Tester Modem	**version 2.0**	
Certification Test Procedures	**version 2.0**	**12/04/2021**

Certification Profile	**C (FCC)**
Role	**Meter**
Overall Verdict	**PASS**

Initiation	Date	Description of modification	Ed.
Omar DIOUF	December 1, 2022	Creation	00

	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	December 1, 2022	December 1, 2022	December 1, 2022
Sign			

The current report and the test results produced in this current are given for information only and must not be relied on by any third person for any reason.

This report contains an assessment of the apparatus carried out on samples submitted to the laboratory. The results in this report relate only to the items tested and were obtained in the period between the initial receipt of samples and the issue of the report. It should be noted that technical hardware or software modifications on the apparatus may impact the results reported in this document.