G3-PLC CERTIFIED FCC

C E R T I F I C A T E

Certificate registration number: G3.2312.594.2.C6

Certificate holder: Iskraemeco, d.d.

Product designation: IE.5-ED,
Hardware version 027.640.402.000, Firmware version 5.0

Certification date: December 15th 2023

This certificate indicates the above-mentioned product successfully completed certification testing with regards to the G3-Alliance reference specification 06/2021. The optional feature coherent mode of the G3 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 December 2023. 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)	LAN23AF020

The device tested is a G3-PLC FCC 1-phase meter. The meter is equipped with the G3-PLC certified platform ENV-EV8010-QFN56-1PHASE-A2 with certificate no. G3.2209.535.1.C6. 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 15th 2023.
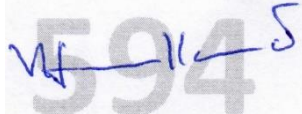
The certificate is only applicable to the product described above and permits the use of the G3-PLC certification logo as laid down in the G3-Alliance logo license agreement.

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 15th 2023

For the G3-Alliance:
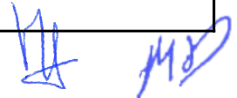
Marc Delandre
Chairman

Madeleine Francillard
Chair Certification Program

G3-Alliance

Annex 1: Protocol Implementation Conformance Statement (PICS)

Feature implementation statement

Name	Value	Description
BAND_PLAN	FCC	Indicates whether the band-plan supported by the device
BAND_PLAN_RF	N/A	Indicates whether the RF band plan(s) supported by the device
FEATURE_HYBRID_RF	FALSE	Indicates whether Hybrid PLC+RF feature is supported
FEATURE_PAN_ COORDINATOR	FALSE	Indicates whether the device is a PAN-Coordinator (true) or a normal device (false)
FEATURE_COHERENT_ MODULATION	TRUE	Indicates whether coherent modulation is supported
FEATURE_EAP_SERVER	FALSE	Indicates whether an EAP-PASK server is implemented by the DUT Apply only if FEATURE_PAN_COORDINATOR = true
FEATURE_D8PSK_ MODULATION	TRUE	Indicates whether D8PSK modulation is supported
FEATURE_ROUTING	TRUE	Indicates whether the routing is implemented by the IUT
FEATURE_SECURITY	F1	Indicates whether the security implemented by the device. Possible values are: F1, F2
FEATURE_ACTIVE_SCAN	TRUE	Indicates whether the active scan process is done by the IUT after power-up
FEATURE_PREAMBLE_ COEXISTENCE_MECHANISM	FALSE	Indicates whether 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 communicating on phase 1. 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 Certification Test Report

LANPARK Expanding networks	Iskraemeco, d.d.	IE.5-ED HW:027.640.402.000 FW: 5.0	
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G3-Alliance
G3-PLC Product Certification
Test Report

Vendor Name	**Iskraemeco, d.d.**
Model Name	**IE.5-ED**
Serial N°	**20231374**
HW version	**027.640.402.000**
FW version	**5.0**
Test Report #	**TR_LAN23AF020 Ed.00**
Date	**December 13, 2023**

CONF Tests Specification	version 0.37.	18/01/2022
CONF Tests Suite	version 2.14.	02/2022
IOT Tests Specification	version 0.14.	11/11/2020
IOT Tests Suite	version 2.7.	11/2021
PERF Tests Specification	version 0.27.	05/03/2019
PERF Tests Suite	version 2.14.	02/2022

Test Tool	version 3.2	
Tester Modem	version 2.0.1	
Certification Test Procedures	version 6.04	06/09/2022

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

Initiation	Date	Description of modification	Ed.
Omar DIOUF	December 13, 2023	Creation	00

	Realised by	Checked by	Approved by
Name	Omar DIOUF	Vincent BUCHOUX	Thierry DOLIGEZ
Date	December 13, 2023	December 13, 2023	December 13, 2023
Sign			