

Certificate registration number: G3.2301.561.2.C6

Certificate holder: Ningbo Sanxing Smart Electric Co., Ltd.

Product designation: S34U28, Hardware version SX8.067.060993, Firmware version 3.05.04

Certification date: January 13th 2023

This certificate indicates the above mentioned product successfully completed certification testing with regards to the G3-PLC Alliance reference specification 06/2021. 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 December 2022 - January 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 | TÜV Rheinland Japan | JP22XMLX 001 |

The device tested is a G3-PLC FCC 3-phase meter. The meter is equipped with the G3-PLC certified platform REL-G3PLC-CPX3+TRG with certificate no. G3.2204.507.1.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 January 13th 2023.

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, January 13th 2023

For the G3-PLC Alliance:

Marc Delandre Chairman



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 |
| BAND_PLAN_RF | N/A | Indicate the RF band plan(s) supported by the device |
| FEATURE_HYBRID_RF | FALSE | Indicate if Hybrid PLC&RF feature is supported |
| 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 |
| | | 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 | 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 $\int A$ |
| | | I mo |

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Annex 2: Protocol Implementation Conformance Statement (PICS)

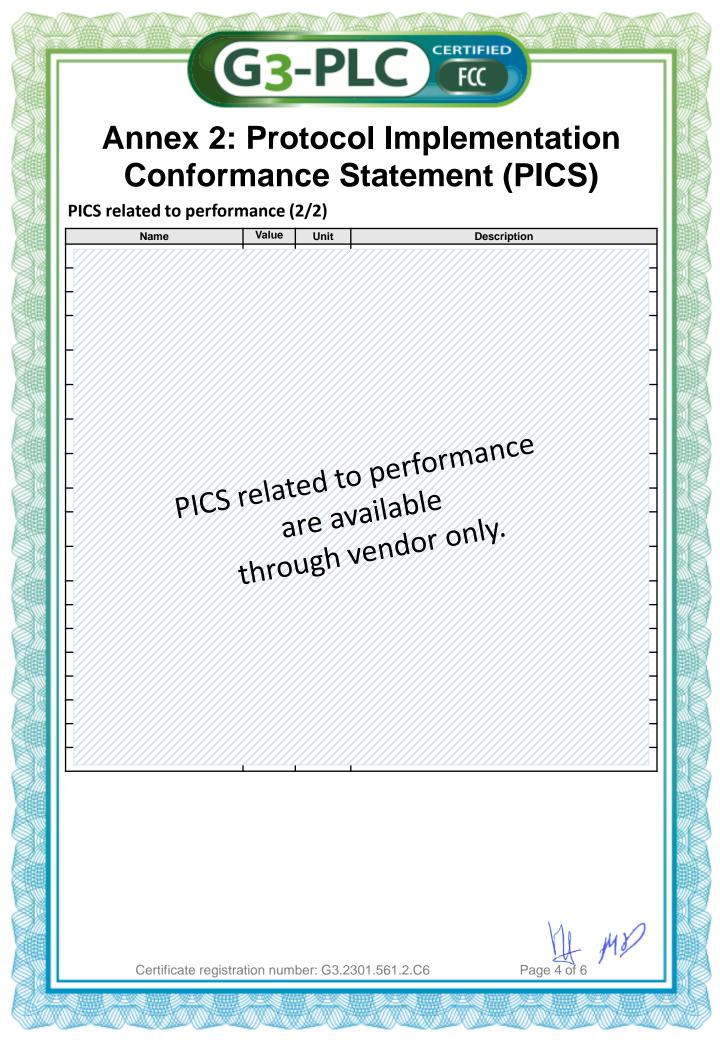
G3-PLC FCC

PICS related to performance (1/2)

The device tested is a G3-PLC FCC 3-phase meter, communicating on 3 phases. 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: G3.2301.561.2.C6 Page 3 of 6



Annex 3:

G3-PLC FCC

Copy of test report cover sheet

| Prüfbericht-Nr.: Test report no.: | JP22XMLX 001 | Auftrags-Nr.: Order no.: | 150267726 20 | Seite 1 von 58 Page 1 of 58 |
|--|--|--|--|--------------------------------|
| Kunden-Referenz-Nr.: Client reference no.: | 1776121_18024784 | Auftragsdatum: Order date: | 2022-12-06 | |
| Auftraggeber: Client: | Ningbo Sanxing Smart Elec No. 16, Fengwan Road, Cic | | ei District, Ningbo, F | P.R. China |
| Prüfgegenstand: Test item: | Smart Meter (FCC) | | | |
| Bezeichnung / Typ-Nr.: Identification / Type no.: | S34U28 | | | |
| Auftrags-Inhalt: Order content: | G3-PLC Certification Test | | | |
| Prüfgrundlage: Test specification: | G3-PLC Alliance - Conform G3-PLC Alliance - 1to1-PH G3-PLC Alliance - Performa G3-PLC Certification Test F | Y-Interoperability-Te ance Test Suite Spec | sts-Specification-v0 cification - v0.27 |).14 |
| Wareneingangsdatum: Date of sample receipt: | 2022-12-13 | cei | M22 0598 671-22 S34U28 | |
| Prüfmuster-Nr.: Test sample no: | A003388874-004 | | •• <u>•••</u> | |
| Prüfzeitraum: Testing period: | 2022-12-28 - 2023-01-06 | 3PeW 0.25-80 | P54 3K7(40°C-70°C) Likes, 64V 100(4 3k-230/400V 50*k2 UC3 rp4Wh C2 8 EN 50470-132 2008 rp4Wh C2 1 8C 92053-21 2020 Execute E | |
| Ort der Prüfung: Place of testing: | 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224- 0021, Japan | | nghwath, CL 2: EC 6005-22: 2020 | |
| Prüflaboratorium: Testing laboratory: | TÜV Rheinland Japan Ltd. | -0+ | Augstaber 4.054 Inseld Augus | |
| Prüfergebnis*: Test result*: | Pass | | | |
| geprüft von: tested by: | 1.2. | genehmigt von: authorized by: | 1.1 | (t |
| Datum: Date: 2023-01-06 | Martin Zietz | Ausstellungsdat Issue date: 2023 | | aito |
| Stellung / Position: | Tester | Stellung / Positio | n: Reviewe | er |
| Sonstiges / Other: Zustand des Prüfgegens | tandes bei Anlieferung: | Prüfmuster vollstä | indig und unbeschä | digt |
| Condition of the test item a * Legende: P(ass) = entspricht o | | Test item complet | e and undamaged N/A = nicht anwendbar | N/T = nicht getestet |
| * Legend: P(ass) = passed a.m | test specification(s) F(ail) = failed a.r. | m. test specification(s) | N/A = not applicable | N/T = not tested |
| auszugsweise vervielfältigt This test report only relates to | ich nur auf das o.g. Prüfmuste werden. Dieser Bericht berecht the a. m. test sample. Without po st report does not entitle to carry | tigt nicht zur Verwend ermission of the test ce | lung eines Prüfzeich | nens. |
| TÜV Rheinland Japan Ltd | ., Global Technology Assessment Ce Mail: g3plc@tuv.com | enter 4-25-2 Kita-Yamata, n · Web: www.tuv.com/ | Tsuzuki-ku Yokohama 2 | 224-0021, Japan |
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