

ATTESTATION OF CONFORMITY

No. 10038832-INC 18-2465

Issued to:

Siemens AG
Humboldtstr. 59
90459 Nuernberg, Germany

For the product:

SICAM PAS
Type: 101 Balanced Slave station,
Included software:
IEC 101 Application software version: 8.10 HF1

With the implemented communication protocol:

IEC 60870-5-101 Edition 2 (IS 2003)

Companion Standard for basic telecontrol tasks in Standard direction and the Siemens AG IEC 60870-5-101 Ed.2 Slave Station Balanced Interoperability Checklist (PID "DeviceProfile_T101_Slave_en_Certification" Version 1.13 – 09-03-2018)

The product has not been shown to be non-conforming to the specified protocol standard, including the interface requirements.

End-to-End data element tests for the information and control points as described in manufacturer Protocol Implementation Conformance Statement (PICS) have been performed on the product's protocol implementation. Functional tests in controlled mode are performed for the following compatible Basic Application Functions:

<ul style="list-style-type: none"> • Station initialization¹ • Cyclic data transmission¹ • Background scan • Read procedure • Spontaneous transmission • Station interrogation 	<ul style="list-style-type: none"> • Clock synchronization • Command transmission¹ • Transmission of integrated totals¹ • Test procedure • Parameter Loading • Acquisition of transmission delay
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The test campaign did not reveal any errors in the product's protocol implementation.

This attestation is granted on account of tests made at location of Siemens AG in Nurnberg, Germany and performed with *UniGrid Telecontrol Simulator* version 2.0 (2018). The results, including remarks and limitations, are laid down in DNV GL Report no. 10038832-INC 18-2297.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV GL by Siemens AG. The manufacturer's production process has not been assessed. This attestation does not imply that DNV GL has verified any product other than the specimen tested.

Madrid, April 30, 2018



E. Henriquez
Business Leader
Interoperability of smart power systems

Issued by:



DNV KEMA is now DNV GL



A. Cubillo
Test Engineer

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