



# IEC 61850 Certificate Level A<sup>1</sup>

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No. 76120549-MOC/INC 12-02228

Issued to:  
OMICRON electronics GmbH  
Oberes Ried 1  
A-6833 Klaus  
Austria

For the 92LE publisher:  
CMC356 Test Set  
Firmware: TU 2.41.3998  
Supporting:  
3 phase voltage and current  
Neutral is calculated

Issued by:



**The product has not shown to be non-conforming to:**  
**IEC 61850-6, 7-2 and 9-2**  
**Communication networks and systems in substations**

The conformance test has been performed according to IEC 61850-10 with 9-2LE publisher's protocol implementation conformance statement: "Protocol Implementation Conformance Statement (PICS) for the IEC 61850 interface in CMC256plus, CMC356, CMC353, CMC850 and CMC256-6 with NET option, Revision 0.3" and extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in CMC256plus, CMC356, CMC353, CMC850 and CMC256-6 with NET option, Revision 1.0".

The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test cases as defined in the UCAIUG Test procedures for Sampled Values Publishers according to the "Implementation Guideline for Digital Interface to Instrument Transformers using IEC 61850-9-2" (9-2LE), version 1.1):

11a Sampled Value publish (12/17)	50 Hz with 80 samples per cycle
11a Sampled Value publish (12/17)	60 Hz with 80 samples per cycle

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA 61850 Analyzer 4.25.00. The test is based on the UCAIUG "Test procedures for Sampled Values Publishers according to the "Implementation Guideline for Digital Interface to Instrument Transformers using IEC 61850-9-2" (9-2LE), version 1.1". This document has been issued for information purposes only, and the original paper copy of the test report: No. 76120549-MOC/INC 12-02227 will prevail.

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

Arnhem, November 29, 2012

M. Adriaansen  
Director Intelligent Networks & Communication

R. Schimmel  
Certification Manager

1 Level A - Independent Test lab with certified ISO 9000 or ISO 17025 Quality System

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Applicable Test Procedures from the UCAIUG "Test procedures for Sampled Values Publishers according to the "Implementation Guideline for Digital Interface to Instrument Transformers using IEC 61850-9-2" (9-2LE), version 1.1"

Conformance Block	Mandatory	Conditional
Configuration	Cnf1, Cnf2, Cnf3, Cnf4, Cnf5, Cnf6, Cnf7, Cnf8	
11a Sampled Value Publishing 50 Hz, 80 samples/cycle	Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14, Svp15	Svp4, Svp7, Svp8, Svp16
11a Sampled Value Publishing 60Hz, 80 samples/cycle	Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14, Svp15	Svp4, Svp7, Svp8, Svp16