



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

No. 76120549-MOC/INC 12-02391

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

For the product:  
CMC 850 Test Set  
Firmware: TU 2.41.3998

Issued by:



The product has not shown to be non-conforming to:

## IEC 61850-6, 7-1, 7-2, 7-3, 7-4 and 8-1

Communication networks and systems in substations

The conformance test has been performed according to IEC 61850-10, the UCA International Users Group Device Test Procedures version 2.3 with TPCL<sup>2</sup> version 1.6, the product's protocol and technical issue implementation conformance statements: "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 "TISSUES Implementation Conformance Statement (TICS) for the IEC 61850 interface in CMC256plus, CMC356, CMC353, CMC850 and CMC256-6 with NET option, Revision 0.3" and the 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):

9a	GOOSE Publish (8/13)	13	Time Synchronization (3/5)
9b	GOOSE Subscribe (10/11)		

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA 61850 GOOSE simulator 2.26.01 with test suite 2.26.00 and UniCA 61850 Analyzer 4.25.00. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 76120549-MOC/INC 12-02390 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, December 6, 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  
2 TPCL - Test procedures change list



Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL version 1.6

<b>Conformance Block</b>	<b>Mandatory</b>	<b>Conditional</b>
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7, Gop9, Gop10a	Gop5, Gop10b
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
13: Time sync	Tm1, Tm2, TmN1	