



IEC 61850 Certificate Level A¹

No. 30530042-Consulting 2005-0588

Issued to:
Maschinenfabrik Reinhausen GmbH
Falkensteinstrasse 8
93059 Regensburg
Germany

For the product:
Voltage regulator TAPCON 260
Software version 1.5



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 with product's protocol, model and technical issue implementation conformance statements: "PICS - IEC 61850 declaration of conformity, version 2005-09-30", "MICS - IEC 61850 declaration of conformity, version 2005-09-30" and "TICS - IEC 61850 declaration of conformity, version 2005-09-30, and extra information for testing "PIXIT - IEC 61850 declaration of conformity, version 2005-09-30".

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 UCA International Users Group Device Test procedures):

1 Basic Exchange (20/23)	12a Direct Control (4/11)
2 Data Sets (2/5)	13 Time Synchronization (3/4)
5 Unbuffered Reports (10/13)	

KEMA grants this Certificate on account of tests performed at the KEMA laboratory in Arnhem, The Netherlands. These tests are performed with UniCASim 61850 version 2.12.01 test system running test suite "61850 Conformance Test v1.17", UniCA 61850 analyzer version 4.11.01. The test is based on the UCA International Users Group Device Test Procedures version 1.1. The results are described in KEMA report: No. 30530042-Consulting 2005-0589.

The tests have been carried out on one single specimen of the above-mentioned products, submitted by Maschinenfabrik Reinhausen GmbH. The Certificate does not include an assessment of the manufacturer's production process. Conformity of his production process with the specimen tested by KEMA is not the responsibility of KEMA.

Arnhem, October 6, 2005

S.J.L.M. Janssen
Managing Director KEMA Consulting

R. Schimmel
Certification manager

1 Level A – Independent Test Lab with certified ISO 9000 or ISO 17025 Quality System

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KEMA Nederland B.V.

Utrechtseweg 310, 6812 AR Arnhem; P.O. Box 9035, 6800 ET Arnhem, The Netherlands.
Telephone + 31 26 356 6142, Telefax + 31 26 515 456, Email sales@kema.com