

IEC 61850 Certificate Level A¹

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Issued to:

Nanjing Sino-German Protection & Substation Control Systems Ltd. Building D11, Nanjing New & High Technology Industry Development Zone Nanjing 210061, P.R.China

Issued by: KEMA 북

No. 30920409-Consulting 09-1646

For the product: NZD7 Protection and Measuring and Control Device Firmware version V3.14

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: "NZD7_Conformance_Statement", "NZD7_TICS", and product's extra information for testing: "NZD7_PIXIT".

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 v2.2):

1 2 3 4+ 5	Basic Exchange (20/24) Data Sets (3/6) Substitution (4/4) Setting Group Definition (10/10) Unbuffered Reporting (14/18)	9a GOOSE Publish (4/12) 9b GOOSE Subscribe (9/10) 12a Direct Control (5/11) 12d Enhanced SBO Control (10/19) 13 Time Synchronization (3/5)
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6	Buffered Reporting (16/20)	14 File Transfer (6/7)

This Certificate includes a summary of the test results as carried out at Nanjing Sino-German Protection & Substation Control Systems Ltd. in China with UniCAsim 61850 version 3.19.00 with test suite 3.19.00 and UniCA 61850 analyzer 4.18.01. The test is based on the UCA International Users Group Device Test Procedures version 2.2. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 30920409-Consulting 09-1645 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by Nanjing Sino-German Protection & Substation Control Systems Ltd.. The manufacturer's production process has not been assessed. This Certificate does not imply that KEMA has certified or approved any product other than the specimen tested.

Arnhem, July 10, 2009

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W. Strabbing Manager Intelligent Networks and Communication T.Xu Test Engineer

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Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5	Srv6, Srv7, Srv8, SrvN1e, SrvN2, SrvN3
	Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	
2: Data Sets	Dset1, Dset10a, DsetN1ae	
3: Substitution	Sub1, Sub2, Sub3, SubN1	
4+: Setting Group Definition	Sg1, SgN1a Sg2, Sg4	Sg4
	SgN1b, SgN2, SgN3, SgN4, SgN5	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10	Rp8, Rp9, RpN5, RpN6
	RpN1, RpN2, RpN3, RpN4	
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12	Br10, Br11, BrN6
	BrN1, BrN2, BrN3, BrN4, BrN5	
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
12a: Direct control	CltN3, CtIN8	CtIN11
	DOns1, DOns3	
12d: Enhanced SBO control	Ctl3, CltN1, CltN2, CltN3, CltN4, CtlN9	CtIN11
	SBOes1, SBOes2, SBOes3	
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, FtN1ab, Ft4	Ft2c, FtN1c