

IEC 61850 Certificate Level A¹

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No. 74100358-MOC/INC 11-1740

For the product: SLP-K120 T/L Protection IED Hardware version 1.2 Firmware version 1.0 Software version 1.0

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 with product's protocol, model and technical issue implementation conformance statements: "SLP-K120-PICS version 1.0", "SLP-K120-MICS version 1.0", "SLP-K120-TICS version 1.0" and product's extra information for testing: "SLP-K120-PIXIT version 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 UCA International Users Group Device Test procedures v2.2b):

Basic Exchange (20/24)

2 Data Sets (3/6)

Data Set Definition (23/23) 2+

Setting Group Selection (3/3)

Unbuffered Reporting (15/18)

Buffered Reporting (17/20)

GOOSE Publish (8/12)

9b GOOSE Subscribe (10/10)

12a Direct Control (7/11)

12d Enhanced SBO Control (12/19)

13 Time Synchronization (4/5)

14 File Transfer (4/7)

This Certificate includes a summary of the test results as carried out at KEMA in The Netherlands with UniCAsim 61850 version 3.23.02 with test suite 3.23.00 and UniCA 61850 analyzer 4.21.03. The test is based on the UCA International Users Group Device Test Procedures version 2.2b. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74100358-MOC/INC 11-1739 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by Sanion. 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, 27 2011

Regional Director Management & Operations Consulting

Test Engineer

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

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

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	
2+: Data Set Definition	Dset2, Dset3, Dset4, Dset5, Dset6, Dset7, Dset8, Dset9	
	DsetN1cd, DsetN2, DsetN3, DsetN4, DsetN5, DsetN6, DsetN7, DsetN8, DsetN9, DsetN10, DsetN11, DsetN12, DsetN13, DsetN14, DsetN15	
4: Setting Group Selection	Sg1, SgN1a	Sg3
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10	Rp5, Rp6, Rp8, Rp9, RpN5
	RpN1, RpN2, RpN3, RpN4	
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12	Br5, Br6, Br10, Br11
	BrN1, BrN2, BrN3, BrN4, BrN5	
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1, Gop5, Gop10, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct control	CtIN3, CtIN8, DOns1, DOns3	Ctl2, Ctl7, CtlN11
12d: Enhanced SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, CtlN9	Ctl2, Ctl7, CtlN11
	SBOes1, SBOes2, SBOes3	
13: Time sync	Tm1, Tm2, TmN1	TmN2
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	