



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

International  
Usersgroup

No. 30920408-Consulting 09-1444

Issued to:  
Guodian Nanjing Automation CO.,LTD  
No.11 Phoenix Road  
Jiangning Development Zone  
Nanjing, Jiangsu Province  
211100, CHINA

For the product:  
PST1200U  
Firmware version 5.02.03.002



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: "SAC\_IEC 61850 PICS", "SAC\_IEC 61850 MICS", "SAC\_IEC 61850 TICS" and product's extra information for testing: "SAC\_IEC61850\_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 Basic Exchange (18/24)	9a GOOSE Publish (5/12)
2 Data Sets (3/6)	9b GOOSE Subscribe (9/10)
4+ Setting Group Definition (10/10)	12a Direct Control (6/12)
5 Unbuffered Reporting (13/18)	12b SBO Control (8/16)
6 Buffered Reporting (16/20)	13 Time Synchronization (3/5)
	14 File Transfer (6/7)

This Certificate includes a summary of the test results as carried out at Nanjing 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. 30920408-Consulting 09-1443 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by Guodian Nanjing Automation CO.,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 24 2009

W. Strabbing  
Manager Intelligent Networks and Communication

T. Xu  
Test Engineer

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

Copyright © KEMA Nederland B.V., Arnhem, the Netherlands. All rights reserved. Please note that any electronic version of this KEMA certificate is provided to KEMA's customer for convenience purposes only. It is prohibited to update or change it in any manner whatsoever, including but not limited to dividing it into parts. In case of a conflict between the electronic version and the original version, the original paper version issued by KEMA will prevail.



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 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv8, SrvN1e, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
4: Setting Group Selection	Sg1, SgN1	Sg3
4+: Setting Group Definition	Sg2, Sg3, Sg4, SgN2, SgN3, SgN4, SgN5	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, Rp9
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, Br11
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop5
9b: GOOSE subscribe	Gos1, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
12a: Direct control	CtlN3, CtlN8 DOns1, DOns3	Ctl2, CtlN11
12b: SBO control	Ctl3, CtlN1, CtlN2, CtlN4 SBOs1, SBOs2	Ctl2, CtlN11
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c