



IEC 61850 Certificate Level A¹

International Usersgroup

No. 30810019-Consulting 08-1133

Issued to:
Protecta Electronics Co. Ltd.
H-1158 Budapest
Késmárk u. 7/A
Hungary

For the product:
EUROPROT Superset device
Firmware version 1.2



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: "EUROPROT Protocol Implementation Extra Information, version 1.0", "EUROPROT Model Implementation Conformance Statement, version 1.0", "EUROPROT Tissues Conformance Statement, version 1.0" and product's extra information for testing: "EUROPROT Protocol Implementation Extra Information, 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 v1.1):

1 Basic Exchange (14/23)	12a Direct Control (6/11)
2 Data Sets (2/5)	12b SBO Control (8/15)
5 Unbuffered Reporting (12/13)	12c Enhanced Direct Control (6/11)
6 Buffered Reporting (14/15)	12d Enhanced SBO Control (11/17)
	13 Time Synchronization (4/4)

This Certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCasim 61850 version 3.16.00 with test suite 3.16.06 and UniCA 61850 analyzer 4.16.00. The test is based on the UCA International Users Group Device Test Procedures version 1.1. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. No. 30810019-Consulting 08-1132 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by Protecta Electronics 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, 20 May 2008

W. Strabbing
Manager Intelligent Networks and Communication

M. Flohil
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.



International
Usersgroup

Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 1.1

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	
2: Data Sets	Dset1, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7 RpN1, RpN2, RpN3, RpN4	Rp5, RpN5, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, BrN6
12a: Direct control	CltN3, CltN8 DOns1, DOns3	Ctl2, Ctl7
12b: SBO control	Ctl3, CltN1, CltN2, CltN4 SBOs1, SBOs2	Ctl2, Ctl7
12c: Enhanced Direct Control	CltN3, CltN8 DOes2, DOes5	Ctl2, Ctl7
12d: Enhanced SBO control	Ctl3, CltN1, CltN2, CltN3, CltN4, CltN9 SBOes1, SBOes2, SBOes3	Ctl2, Ctl7
13: Time sync	Tm1, Tm2, TmN1	TmN2