



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

International Usersgroup

No. 30102175-Consulting 10-2528

Issued to:  
Sprecher Automation GmbH  
Franckstrasse 51  
A-4018 Linz  
Austria

For the product:  
SPRECON-E-C  
Control Unit  
Firmware version: 8.15



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: "SPRECON-E IEC 61850 PICS & PIXIT Conformance statement, Issue D", "SPRECON-E IEC 61850 Model Implementation Conformance statement, Issue B", "SPRECON-E IEC 61850 Tissues Implementation Conformance statement, Issue B" and product's extra information for testing: "SPRECON-E IEC 61850 PICS & PIXIT Conformance statement, Issue D".

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 (15/24)	12a Direct Control (4/11)
2 Data Sets (3/6)	12c Enhanced Direct Control (6/13)
5 Unbuffered Reporting (13/18)	12d Enhanced SBO Control (11/19)
6 Buffered Reporting (15/20)	13 Time Synchronization (3/4)
9a GOOSE Publish (7/12)	
9b GOOSE Subscribe (9/10)	

This Certificate includes a summary of the test results as carried out at KEMA in Arnhem with UniCASim 61850 version 3.21.03 with test suite 3.21.02 and UniCA 61850 analyzer 4.22.02. 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. 30102175-Consulting 10-2527 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by Sprecher Automation. 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, 9 March 2011

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Regional Director Management & Operations Consulting

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Certification Manager

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 2.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv8
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10 RpN1, RpN2, RpN3, RpN4	Rp8, Rp9, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12 BrN1, BrN2, BrN3, BrN4, BrN5	Br10, Br11
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1, Gop6, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
12a: Direct control	CtlN3, CtlN8 DOs1, DOs3	
12c: Enhanced Direct Control	CtlN3, CtlN8 DOes2, DOes5	Ctl7, CtlN11
12d: Enhanced SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, CtlN9 SBOes1, SBOes2, SBOes3	Ctl7, CtlN11
13: Time sync	Tm1, Tm2, TmN1	