



IEC 61850 Certificate Level A¹

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No. 74102036-MOC/INC 12-01953

Issued to:
Siemens Protection Devices Limited
North Farm Road, Hebburn
Tyne & Wear, NE31 1LX
United Kingdom

For the product:
Reyrolle 7SR224
Directional Overcurrent Protection Relay
Firmware Version: 7b
EN100 V04.08

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, the UCA International Users Group Device Test Procedures version 2.3 with TPCL² version 1.5, the product's protocol, model and technical issue implementation conformance statements: "7SR224 IEC 61850 Protocol Implementation Conformance Statement (PICS), document issue 2012/10", "7SR224 IEC 61850 Model Implementation Conformance Statement (MICS), document issue 2012/09" and the extra information for testing: "7SR224 Protocol Implementation Extra Information for Testing (PIXIT), document issue 2012/10".

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):

1	Basic Exchange (18/24)	9a	GOOSE Publish (8/13)
2	Data Sets (3/6)	9b	GOOSE Subscribe (10/11)
2+	Data Set Definition (23/23)	12a	Direct Control (5/12)
4	Setting Group Selection (3/3)	12c	Enhanced Direct Control (5/13)
5	Unbuffered Reporting (16/19)	12d	Enhanced SBO Control (10/19)
6	Buffered Reporting (18/21)	13	Time Synchronization (3/5)
6+	Enhanced buffered reporting (10/12)	14	File Transfer (4/7)

This certificate includes a summary of the test results as carried out at Siemens in United Kingdom with UniCA 61850 Client simulator 3.25.02 with test suite 3.24.02c and UniCA 61850 Analyzer 4.25.00. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74102036-MOC/INC 12-01952 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by Siemens. The manufacturer's production process has not been assessed. This attestation does not imply that KEMA has approved any product other than the specimen tested.

Arnhem, October 26, 2012


M. Adriaensen
Director Intelligent Networks & Communication


R. Schimmel
Certification Manager

- 1 Level A - Independent test lab with certified ISO 9000 or ISO 17025 quality system
2 TPCL - Test procedures change list

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Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL version 1.5

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv7, SrvN1e, SrvN3
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, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp6, Rp8, Rp9, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br6, Br10, Br11
6+: Enhanced buffered reporting	BrE1, BrE2, BrE3, BrE6, BrE7, BrE8, BrE9, BrE10, BrE11	BrE12
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7, Gop10a	Gop1, Gop6, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct control	CtiN3, CtiN8 DOs1, DOs3	CtiN11
12c: Enhanced Direct Control	CtiN3, CtiN8 DOes2, DOes5	CtiN11
12d: Enhanced SBO control	Cti3, CtiN1, CtiN2, CtiN3, CtiN4, CtiN9 SBOes1, SBOes2, SBOes3	CtiN11
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	