



IEC 61850 Certificate Level A¹

No. 74101140-MOC/INC 12-00568

Issued to:
Schneider Electric
Lyoner Strasse, 44-48
D-60528 Frankfurt am Main
Germany

For the product:
MiCOM P139
Feeder Management and Bay Control Unit
Version -650, -230



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: "P139-650-230 PICS_MICS", "Px3x TICS 02E" and the extra information for testing: "Px3x PIXIT 04G".

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 (17/24) | 12a | Direct Control (5/12) |
| 2 | Data Sets (3/6) | 12c | Enhanced Direct Control (6/13) |
| 5 | Unbuffered Reporting (14/19) | 12d | Enhanced SBO Control (11/19) |
| 6 | Buffered Reporting (16/21) | 13 | Time Synchronization (4/5) |
| 9a | GOOSE Publish (10/13) | 14 | File Transfer (4/7) |
| 9b | GOOSE Subscribe (11/11) | | |

This Certificate includes a summary of the test results as carried out at Schneider Electric in Germany with UniCasim client 61850 version 3.23.02, test suite 3.24.01 and UniCA 61850 analyzer 4.24.03. This document has been issued for information purposes only and the original paper copy of the KEMA report: No. 74101140-MOC/INC 12-00567 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by Schneider Electric. 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, 23 March 2012

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Regional Director Management & Operations Consulting

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Test Engineer

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, Srv8 |
| 2: Data Sets | Dset1, Dset10a, DsetN1ae | |
| 5: Unbuffered Reporting | Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4 | Rp5, Rp8, RpN5 |
| 6: Buffered Reporting | Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5 | Br5, Br10 |
| 9a: GOOSE publish | Gop2, Gop3, Gop4, Gop7, Gop10a | Gop1, Gop5, Gop8, Gop10b, GopN1 |
| 9b: GOOSE subscribe | Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6 | Gos1b, Gos4 |
| 12a: Direct control | CtlN3, CtlN8, DOns1, DOns3 | CtlN11 |
| 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 | Tm3 |
| 14: File transfer | Ft1, Ft2ab, Ft4, FtN1ab | |