IEC 61850 Certificate Level A[1]

No. 12143042-OPE/INC 14-1089

Issued to:
SAC/Arteche
Derio Bidea 28, Zabalondo Industrialdea
48100 Mungia, Bizkaia
Spain

For the server product:
DM9300-TE Multifunction meter
IEC 61850 Software version: 202
Hardware version: DM9300-TE-EB-B-32-D4-
C-A-120-2.5-60-E
S/N: 140168721501

Issued by: **KEMA** DNV

The server product has not shown to be non-conforming to:

IEC 61850 First Edition Parts 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 Server Device Test Procedures version 2.3 with TPCL[2] version 1.7, the product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in DM9300 TE, DM9300 T, DM9300 S", "Model Implementation Conformance Statement for the IEC 61850 interface in DM9300 TE, DM9300 T, DM9300 S" and "TISSUES Implementation Conformance Statement for the IEC 61850 interface in DM9300 TE, DM9300 T, DM9300 S" and the extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in DM9300 TE, DM9300 T, DM9300 S".

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 (20/24)	6	Buffered Reporting (18/21)
2	Data Sets (3/6)	13	Time Synchronization (4/5)
5	Unbuffered Reporting (16/19)		

This certificate includes a summary of the test results as carried out at DNV KEMA in Spain with UniCA 61850 Client Simulator 4.28.04 with test suite 3.28.00 and UniCA 61850 Analyzer 5.28.03. This document has been issued for information purposes only, and the original paper copy of the DNV KEMA report No. 12143042-OPE/INC 14-1099 will prevail.

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

Arnhem, October 27, 2014

M. Adriaensen
Head of Department Operational Excellence

R. Schimmel
Certification Manager

[1] Level A - Independent test lab with certified ISO 9001 Quality System
[2] TPCL - Test procedures change list

Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL version 1.7

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv7, Srv8, SrvN1e, SrvN1f, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, Rp9, RpN5, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, Br11, BrN6
13: Time Sync	Tm1, Tm2, TmN1	TmN2

All configuration file and data model tests have been successfully performed for the product variants using the same communication hardware and software version: DM9300-T.