

IEC 61850 Certificate Level A¹

No. C3013930

Issued to:

I.S.A. Altanova Group S.r.l.
Via Prati Bassi, 22 - 21020
Taino (VA) - ITALY

For the 9-2LE publisher:

DRTS 66L Testing Relay
Hardware version V1.0D
Firmware Version 2.03
Sampled Values Communication v.1.6 Build 106
S/N TECW01DRTS66L
Supporting:
4 phase voltage and current
Neutral is measured

Issued by: CESI S.p.A. – KEMA Labs

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

IEC 61850-6, 7-2 and 9-2

Communication networks and systems in substations

The conformance test has been performed according to IEC 61850-10 and the UCAIUG: Test procedures version 1.1 for Sampled Values Publishers according to the "Implementation Guideline for Digital Interface to Instrument Transformers using IEC 61850-9-2 (9-2LE version 2.1)" with TPCL² version 1.1 with 9-2LE publisher's protocol implementation conformance statement: "PICS and extra information for testing PIXIT for the IEC 61850 interface in I.S.A. Altanova Group srl instruments DRTS 66L, 64L, 34L, 33L - Sampled Values 9-2LE Publisher", Rev.3 (18/10/2023).

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):

11a Sampled Value publish (12/17)	50 Hz with 80 samples per cycle
11a Sampled Value publish (12/17)	60 Hz with 80 samples per cycle
11a Sampled Value publish (12/17)	50 Hz with 256 samples per cycle
11a Sampled Value publish (12/17)	60 Hz with 256 samples per cycle

This certificate includes a summary of the test results as carried out at CESI S.p.A. – KEMA Labs in Milano, Italy with SimFlex Client Simulator Edition 2 v.3.19 with test suite version Ed.2 3.19.20230801 (including PTB HW platform) and Wireshark v.4.0.10. This document has been issued for information purposes only, and the original paper copy of the CESI S.p.A. - KEMA Labs test report: No. **C3013929** will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to CESI S.p.A. - KEMA Labs by I.S.A. Altanova Group S.r.l. The manufacturer's production process has not been assessed. This certificate does not imply that CESI S.p.A. - KEMA Labs has certified or approved any product other than the specimen tested.

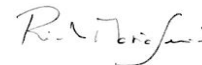
Milano, 06/11/2023



Alessandro Bertani

Services & Smart Technologies Director

Issued by

Riccardo Maria Seresini

DGL - Senior Engineer

¹ Level A - Independent Test lab with certified ISO 9001 Quality System

² TPCL - Test procedures change list

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Applicable test procedures from the UCAIUG: Test procedures version 1.1 for Sampled Values Publishers according to the "Implementation Guideline for Digital Interface to Instrument Transformers using IEC 61850-9-2 (9-2LE version 2.1)" with TPCL version 1.1

Conformance Block	Mandatory	Conditional
Configuration	Cnf1, Cnf2, Cnf3, Cnf4, Cnf5, Cnf6, Cnf7, Cnf8	
11a Sampled Value Publishing 50 Hz, 80 samples/cycle	Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14	Svp4, Svp8, Svp12, Svp13, Svp16
11a Sampled Value Publishing 60Hz, 80 samples/cycle	Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14	Svp4, Svp8, Svp12, Svp13, Svp16
11a Sampled Value Publishing 50Hz, 256 samples/cycle	Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14	Svp5, Svp9, Svp12, Svp13, Svp16
11a Sampled Value Publishing 60Hz, 256 samples/cycle	Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14	Svp5, Svp9, Svp12, Svp13, Svp16

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