

No. 10250533-INC 20-2801

Issued to:

Megger
4545 W. Davis Street
Dallas, Texas 75211-3422
USA

For the 9-2LE publisher:

SMRT410 Relay Test System
Firmware version: 5.780
S/N: 201709070021
Supporting:
4 phase voltage and current
Neutral is calculated and measured

The 9-2LE publisher has not been shown to be non-conforming to:

IEC 61850 First Edition Parts 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 UCA International Users Group 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: "Protocol Implementation Conformance Statement for the IEC 61850 interface in SMRT Family, MPRT8445, MPRT2145, FREJA40X, and FREJA5XX Family, reference: Megger Part # 87114 - R1" and extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in SMRT Family, MPRT8445, MPRT2145, FREJA40x, and FREJA5XX Family, reference: Megger P/N 87115 R1".


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 publishing (14/17)	50 Hz with 80 samples per cycle
11a Sampled Value publishing (14/17)	60 Hz with 80 samples per cycle

This certificate includes a summary of the test results as carried out at DNV GL in the Netherlands with UniCA 61850 Analyzer 61850 version 5.26.04. This document has been issued for information purposes only, and the archived DNV GL report No. 10250533-INC 20-2799 will prevail.

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

Arnhem, August 27, 2020



N. Heijker
Business Leader
Interoperability of smart power systems

Issued by:



DNV-GL
DNV KEMA is now DNV GL



R. Schimmel
Verification Manager

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 UCA International Users Group 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, Svp7, Svp8, Svp12, Svp13, Svp16, Svp17
11a Sampled Value Publishing 60 Hz, 80 samples/cycle	Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14	Svp4, Svp7, Svp8, Svp12, Svp13, Svp16, Svp17