



IEC 61850 Certificate Level A¹

No. 74105822 -OPE/INC 14-1413

Issued to:
Electro Industries/GaugeTech
1800 Shames Drive
Westbury, NY 11590-1730
USA

For the server product:
Shark 200 Multifunction Meter
INP300S Hardware Rev K
Firmware 3.35



Issued by:

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 Device Test Procedures version 2.3 with TPCL² version 1.7, the product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 – Edition 1 interface in Electro Industries Shark / INP300S V3.35", "Model Implementation Conformance Statement for the IEC 61850 interface in Shark 200 ICD 21-Feb-2014, 1.0" and "TISSUES Implementation Conformance Statement for the IEC 61850 Edition 1 – interface in Electro Industries Shark / INP300S V3.35" and the extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Edition 1 – interface in Electro Industries Shark / INP300S V3.35".

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 (16/24)	13	Time Synchronization (3/5)
2	Data Sets (3/6)		
5	Unbuffered Reporting (15/19)		
6	Buffered Reporting (17/21)		

This certificate includes a summary of the test results as carried out at DNV KEMA in the Netherlands 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. 74105822-OPE/INC 14-1412 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV KEMA by Electro Industries. 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, May 6, 2014

M. Adriaansen
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



International
Usersgroup

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	Srv8, SrvN1f
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, Rp9, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, Br11
13: Time Sync	Tm1, Tm2, TmN1	