

IEC 61850 Certificate Level A¹

No. 22TC200948

Issued to:
VITZRO EM Co., Ltd.
VITZRO Bldg, 7, Neungdong-ro 25-gil, Gwangjin-gu, Seoul,
Republic of Korea

For the CLIENT:
HMI
VICOM-PES
Software version: 1.1

Issued by:
Korea Electrotechnology Research Institute
111, Hanggaul-ro, Sangrok-gu, Ansan-si, Gyeonggi-do, 15588, Republic of Korea

The CLIENT has not been shown to be non-conforming to:
IEC 61850 Edition 2 Parts 6, 7-1, 7-2, 7-3, 7-4 and 8-1
Communication networks and systems for power utility automation

The conformance test has been performed according to IEC 61850-10 Edition 2, the UCA International Users Group Edition 2 Client Test Procedures version 1.2 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in < VICOM-PES, v1.1 >", "Model Implementation Conformance Statement for the IEC 61850 interface in < VICOM-PES, v1.1 >", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in < VICOM-PES, v1.1 >" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing for the IEC 61850 interface in < VICOM-PES, v1.1 >".

The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test):

1	Basic Exchange (20/24)	13	Time Synchronization (4/4)
2	Data Sets (4/10)		
2+	Data Set Definition (8/8)		
5	Unbuffered Reporting (23/24)		

This Certificate includes a summary of the test results as carried out at KERI in Republic of Korea with UniCASim IED simulator version 5.29.06 with test suite CLIENT_ED2_1.2 and UniCA Analyzer version 5.34.02.0. This document has been issued for information purposes only, and the original paper copy of the KERI report: No. 22TC200948 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KERI by VITZRO EM Co., Ltd. The manufacturer's production process has not been assessed. This certificate does not imply that KERI has certified or approved any product other than the specimen tested.

Republic of Korea, December 20, 2022



J. H. Kim
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1 Level A - Independent Test lab with certified [ISO 9001] [ISO/IEC 17025] Quality System
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Applicable Test Procedures from the UCA International Users Group Edition 2 Client Test Procedures version 1.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7 cSrv1, cSrv2, cSrv3, cSrv4, cSrv5, cSrv7, cSrv8, cSrv9, cSrvN1, cSrvN3, cSrvN5, cSrvN6
2: Data Sets		cDs1, cDs2, cDs5, cDs6,
2+: Data Set Definition		cDs10, cDs11, cDs12, cDs13, cDs14, cDsN10a, cDsN10b, cDsN11
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6	cRp1, cRp2, cRp6, cRp7, cRp13b, cRp16, cRp17, cRp18, cRpN1
13: Time sync	cTm1, cTmN1	cTm2, cTmN2

