

## IEC 61850 Certificate Level A1

No. 2023PUCA000004

Issued to:

TsingEnergy M&C Co. , Ltd. Add: No.369 Zhonghuan West Road, Tianjin Economic

Area, China

For the product:

DCAP-6701 Universal Protection Measuring and

Control Unit

Software version: V1.10

Issued by: **KCOP**开誓

The server product 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 Server Test Procedures version 2.0.6 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement (PICS) for DCAP-6701 Universal Protection Measuring and Control Unit", "Model Implementation Conformance Statement (MICS) for DCAP-6701 Universal Protection Measuring and Control Unit", "TISSUES Implementation Conformance Statement (TICS) for DCAP-6701 Universal Protection Measuring and Control Unit" and product's extra information for testing: "Protocol Implementation extra Information for Testing (PIXIT) for DCAP-6701 Universal Protection Measuring and Control Unit".

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):

9a GOOSE Publish (13/13)
9b GOOSE Subscribe(21/21

This certificate includes a summary of the test results as carried out at Xuchang KETOP Testing Research Institute Co.,Ltd in Xuchang, China with UniCA 61850 Analyzer V6.41.0.0, UniCAsim 61850 GOOSE V2.27.01, UniCAsim SCL checker v3.37.01,This document has been issued for information purposes only, and the original paper copy of the KETOP Lab report: No. JW232657-Protocol will prevail.

The test have been carried out on one single specimen of the product as referred above and submitted to KETOP Lab by TsingEnergy M&C Co., Ltd. The manufacturer's production process has not been assessed. This certificate does not imply that KETOP Lab has approved any product other than the specimen tested.

Xuchang, Oct 11th, 2023

He Chun

Director of PRTC Department

Liu Desen Test Engineer 刘德森

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 $<sup>^{\</sup>rm 1}$  Level A - Independent Test lab with ISO 17025 Quality System



Applicable Test Procedures from the UCA International Users Group Conformance Test Procedures for Server Devices with IEC 61850-8-1 Edition 2 Interface Revision 2.0.6

Conformance Block	Mandatory	Conditional
9a: GOOSE publish	sGop2a, sGop3, sGop4, sGop9, sGop10,	sGop1, sGop2b, sGop5, sGop6,
	sGop11, sGop12	sGopN1, sGopN2
9b: GOOSE Subscribe	sGos1, sGos2, sGos3,sGos5, sGos6a,	sGos4, sGos6b, sGos13
	sGos7, sGos8, sGos9, sGos10, sGos11,	
	sGos12, sGos23, sGosN1, sGosN2, sGosN3,	
	sGosN4, sGosN5, sGosN6	
13 Time sync	sTm1, sTm2, sTmN1	

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