

CENTRAL POWER RESEARCH INSTITUTE

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IEC 61850 Certificate ^{Level A}



No. UARC/PL/C0165/2010

Issued to:

M/s. Easun Reyrolle Limited,
98, Sipcot Industrial Complex,
Hosur - 635126.
India.

For the product:

Transformer Protection Relay- TPRO
Hardware Version: 1.0
Firmware Version: 1.0
IEC 61850 module version: K0.03
Serial No.: TPRO-4000-100113-02

Issued by: CENTRAL POWER RESEARCH INSTITUTE, India

**The product has not shown to be non-conforming to:
IEC 61850-6, 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 with product's protocol, model and technical issue implementation conformance statements: "PICS version 1.00", "MICS version 1.00", "TICS version 1.00" and products extra information for testing: "PIXIT for testing for Easun Reyrolle range of Protection IEDs version 1.00".

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 as defined in the UCA International Users Group Device Test procedures v2.2):

| | |
|---------------------------------|---------------------------|
| 1 Basic Exchange (15/24) | 6 Buffered Reports(16/20) |
| 2 Data Sets (3/6) | 9a GOOSE Publish (5/11) |
| 3 Substitution (4/4) | 9b GOOSE Subscribe (9/10) |
| 4 Setting Group Selection (3/3) | 12a Direct Control (4/12) |
| 5 UnBuffered Reports (13/18) | 13 Time sync (3/5) |
| | 14 File Transfer (6/7) |

This Certificate includes a summary of the test results as carried out at CPRI, Bangalore, India with UniCasim 61850 version 3.21.02 test system running test suit "61850 Conformance Test v3.20.00", and UniCasim 61850 analyzer version 4.20.01. The test is based on the UCA International Users Group Device Test Procedures version 2.2. This document has been issued for information purposes only and the original paper copy of the CPRI report No.: UARC/PL/T0165/2010.Dated: February 04, 2011 will prevail.

The tests have been carried out on one single specimen of the products as referred above and submitted to CPRI by M/s. Easun Reyrolle Ltd., Hosur, India. The manufacturer's production process has not been assessed. This Certificate does not imply that CPRI has certified or approved any product other than the specimen tested.

Bangalore, 04 February 2011.

(Mridula Jain)
Test Engineer



(V. Arunachalam)
Additional Director

Report Reference No: UARC/PL/T0165/2010 Dated: February 04, 2011

