

CENTRAL POWER RESEARCH INSTITUTE

Prof. Sir CV Raman Road, PO Box 8066, Sadashivanagar PO,
BANGALORE – 560 080. I N D I A



IEC 61850 Certificate ^{Level A}



No. ITID/PL/C0020/2010

Issued to:

M/s Crompton Greaves Limited,
A-3, Ambad M.I.D.C, Nashik
Maharashtra-422010
India

For the product:

CGV24C Over Voltage, Under Voltage and
NDR Protection Relay
Hardware Version: CGHW-1.00
Software Version: V1.00
Serial No.: V100400110

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 version 1.00".

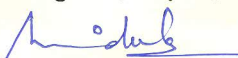
The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases/total number of test cases as defined in the UCA International Users Group Device Test procedures v2.2):

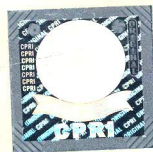
1 Basic Exchange (19/24)	9a GOOSE (5/11)
2 Data Sets (3/6)	12a Direct Control (5/12)
5 UnBuffered Reports (13/18)	13 Time Synchronization (3/5)
6 Buffered Reports(15/20)	


This Certificate includes a summary of the test results as carried out at CPRI, Bangalore, India with UniCASim 61850 version 3.19.00 test system running test suit "61850 Conformance Test v3.19.00", 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.: ITID/PL/T0020/2010. Dated: May 20, 2010 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 Crompton Greaves Limited, 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, May 20, 2010.


(Mridula Jain)
Test Engineer





(V. Arunachalam)
Additional Director


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Applicable Test Cases:

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5, Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv8, Srv6, Srv7, SrvN1e, SrvN3
2: Data Set	Dset1, Dset10a, DsetN1ae	-
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, RpN1, RpN2, RpN3, RpN4	Rp5, RpN5, Rp8
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10
9a GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1
12a Direct control	CtlN3, CtlN8 DOns1, DOns3	Ctl2
13 Time sync (client)	Tm1, Tm2, TmN1	-


(Mridula Jain)
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