ATTESTATION OF CONFORMITY

No. 74104021-MOC/INC 13-0780

Issued to:
ABB
SA Products
Nätverksgatan 3, B391, Finnslätten
721 59 Västerås, Sweden

for the product:
REL 650
Type: Slave station
Product version 1.3.0
Firmware version 1.3.0.13

With the implemented communication protocol:

IEC 60870-5-103 (IS 1998)

Companion Standard for the informative interface of protection equipment and the ABB 650 series version 1.3 IEC 60870-5-103 Interoperability document, dated January 28, 2013.

The product has not been shown to be non-conforming to the specified protocol standard, including the interface requirements.

End-to-End data element tests for the information and control points as described in manufacturer Protocol Implementation Conformance Statement (PICS) have been performed on the product's protocol implementation. Functional tests in controlled mode are performed for the following levels:

• *Station initialization in Unbalanced mode* • *Cyclic data transmission* • *Acquisition of events* • *General Interrogation*	• *Clock synchronisation* • *Transmission of Disturbance records* • *Test mode and local parameter setting*

The test campaign did not reveal any errors in the product's protocol implementation.

This Attestation is granted on account of tests made at location of ABB in Västerås, Sweden and performed with UnIECim version 3.0.1 (November 2012) running CS103 Test Suite version CS103MasterNormal 2.4. The results, including remarks and limitations, are laid down in our report no. 74104021-MOC/INC 13-0781.

The tests have been carried out on one single specimen of the product, submitted by ABB. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DNV KEMA is not the responsibility of DNV KEMA.

Arnhem, February 15, 2013

M. Adriaensen
Intelligent Networks and Communication

P.H.S. Ermens
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IMPORTANT: Remarks apply to this implementation. See the resulting report for full details
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