

# ATTESTATION OF CONFORMITY

74107144-OPE/INC 15-1050

Issued to:  
Siemens  
4F, No.37 Yihuai Street  
Jiangning Economic and Technology  
Development Zone  
211100 Nanjing  
China

For the product:  
SIPROTEC Compact Feeder Protection  
7SC80 V04.20.04  
Type: IEC 104 Controlled station,  
Included software:  
- IEC 104 Application software version: 1.20

With the implemented communication protocol:

## IEC 60870-5-104 ed.2 (IS 2006)

Network Access for IEC 60870-5-101 using standard transport profiles in Standard direction and the EDP-Energías de Portugal Light Protocol Implementation Document for IEC 60870-5-104 V1.1

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:

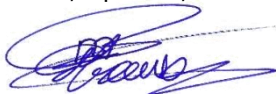
<ul style="list-style-type: none"> <li>• <i>Station initialization</i></li> <li>• <i>Acquisition of events</i></li> <li>• <i>General interrogation</i></li> <li>• <i>Clock synchronization</i></li> <li>• <i>Command transmission</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Transmission of Integrated Totals</i></li> <li>• <i>Parameter Loading</i></li> <li>• <i>Test procedure</i></li> <li>• <i>File Transfer</i></li> </ul>
--	---

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 Siemens in Nanjing, China and performed with UnIECim 104 version 2.0.2 running CS104 Test Suite version 1.43. The results, including remarks and limitations, are laid down in DNV GL report no. 15-1049.

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

Arnhem, April 19, 2015



M. Adriaensen  
Intelligent Networks and Communication



D. Palomo  
Test Consultant

IMPORTANT: Remarks apply to this implementation. Publication of this document is allowed. See the resulting report for full details. Publication in total or in part and/or reproduction in whatever way of the contents of the above mentioned report(s) is not allowed unless permission has been explicitly given either in the report(s) or by previous letter.