

ATTESTATION OF CONFORMITY

No. 30530046-Consulting 07-0509

issued to:

Brodersen Controls
Industrivej 3
DK-4000 Roskilde
Denmark

for the product:

RTU32
Controlled station implementation
Firmware Version: 1.11
Compilation date: Feb. 1, 2007

With the implemented communication protocol:

IEC 60870-5-104 (IS 2000)

Network Access for IEC 60870-5-101 using standard transport profiles and the Statkraft Norway PROSAM project requirements version 1.3 in Standard and Reversed direction¹

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 KEMA/manufacture Protocol Implementation Conformance Statement (PICS) **have** been performed on the product's protocol implementation. Functional tests in controlled mode are performed for the following compatible Basic Application Functions:

- | | |
|---|--|
| <ul style="list-style-type: none">• Station initialization¹• Acquisition of events¹• General Interrogation¹• Command transmission¹ | <ul style="list-style-type: none">• Test mode¹• Transmission of integrated totals¹• Parameter loading¹• Redundancy and PROSAM requirements¹ |
|---|--|

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

This Attestation is granted on account of tests made at the KEMA Consulting Europe site in Arnhem The Netherlands, and performed with UnIECim 60870-5-104 version 1.14.01 (December 2006) running CS104 Test Suite version CS104 V1.24. The results, including remarks and limitations, are laid down in KEMA report no. 30530046-Consulting 07-0508.

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

Arnhem, 9 March 2007



S.J.L.M. Janssen
Managing Director KEMA Consulting



P.H.S. Ermens
Test Consultant

¹ IMPORTANT: remarks apply to the implementation of this function. See the resulting report (chapter 4) for full details

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ATTESTATION OF CONFORMITY

No. 30530046-Consulting 07-1287

issued to:

Brodersen Controls
Industrivej 3
DK-4000 Roskilde
Denmark

for the product:

RTU32
Controlling station implementation
Firmware Version: 1.21
Compilation date: June 7 2007

With the implemented communication protocol:

IEC 60870-5-104 (IS 2000)

Network Access for IEC 60870-5-101 using standard transport profiles and the Statkraft Norway PROSAM project requirements version 1.3 in Standard and Reversed direction¹

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 KEMA/manufacture Protocol Implementation Conformance Statement (PICS) have been performed on the product's protocol implementation. Functional tests in controlled mode are performed for the following compatible Basic Application Functions:

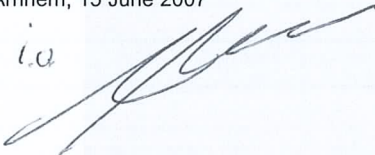
- | | |
|---|--|
| <ul style="list-style-type: none">• <i>Station initialization</i>¹• <i>Acquisition of events</i>¹• <i>General Interrogation</i>¹• <i>Command transmission</i>¹ | <ul style="list-style-type: none">• <i>Test mode</i>¹• <i>Transmission of integrated totals</i>¹• <i>Parameter loading</i>¹• <i>Redundancy and PROSAM requirements</i>¹ |
|---|--|

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

This Attestation is granted on account of tests made at the KEMA site in Arnhem, the Netherlands, and performed with UnIECim 60870-5-104 version 1.15.01 (March 2007) running CS104 Test Suite version CS104 V1.25. The results, including remarks and limitations, are laid down in our report no. 30530046-Consulting 07-1286.

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

Arnhem, 15 June 2007



S.J.L.M. Janssen
Managing Director KEMA Consulting



P.H.S. Ermens
Test Consultant

¹ IMPORTANT: remarks apply to the implementation of this function. See the resulting report (chapter 4) for full details.

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