

Engineering Labs**METTLER-TOLEDO GmbH**Registration No.: **STS 0009**
Registrier- Nr.:Swiss testing service
Schweizerischer
Prüfstellendienst**DECLARATION of
CONFORMITY****20181053.N02.02**

Generation date:

2018 - June - 04

Device under test:

**NB3700, NB3701, NB3710, NB3711,
NB3720 and NB3800
Conformity explanation to EN 50155:2007**

Client:

**NetModule AG
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Results:*In the available paper it is confirmed that the****NetModule Router NB3700
NetModule Router NB3701
NetModule Router NB3710
NetModule Router NB3711
NetModule Router NB3720
NetModule Router NB3800******fulfills the requirements for a type test in accordance with
chapter 12.2.1, 12.2.2, 12.2.3, 12.2.4, 12.2.5, 12.2.6, 12.2.7,
12.2.8, 12.2.9, 12.2.11, 12.2.12 and 12.2.14 of the EN
50155:2007***Person in charge
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In chapter 12.2 of EN 50155:2007 all necessary tests for a type test are listed. All these tests were accomplished with the NetModule Routers NB3700, NB3710, NB3720 and NB3800 in two different test laboratories.

Remark:

The NetModule Routers NB3701 and NB3711 correspond to the NetModule Routers NB3700 respectively NB3710, but use the CPU-Module of the NB3800 NetModule Router.

The results are held in the following report:

<i>Report Nr.</i>	<i>Data of Report</i>	<i>Test Laboratory, Number of accreditation</i>	<i>Short Name</i>
12-EL-0088.10	2012-08-16	Electrosuisse Albislab CH - 8047 Zürich STS 014	Albis
20121071.A02.01	2012-08-03	Mettler Toledo AG CH – 8606 Nänikon STS 009	Mettler
20141021.A02.01 20141021.A02.02	2014-04-28	Mettler Toledo AG CH – 8606 Nänikon STS 009	Mettler
15-EL-0061.E02	2016-05-12	Electrosuisse Albislab CH - 8047 Zürich STS 0001	Albis
20151053.A02.01	2015-06-15	Mettler Toledo AG CH – 8606 Nänikon STS 0009	Mettler
15-EL-0364.E01	2015-11-17	Electrosuisse Albislab CH - 8047 Zürich STS 0001	Albis
20161044.A02.01	2016-04-08	Mettler Toledo AG CH – 8606 Nänikon STS 0009	Mettler
16-EL-0019.E01	2016-03-11	Electrosuisse Albislab CH - 8047 Zürich STS 0001	Albis
20161099.A02.01	2016-08-12	Mettler Toledo GmbH CH – 8606 Nänikon STS 0009	Mettler
20161099.A02.02	2016-08-12	Mettler Toledo GmbH CH – 8606 Nänikon STS 0009	Mettler
16-EL-0019.E12	2017-06-20	Electrosuisse Albislab CH - 8047 Zürich STS 0001	Albis
20161144.A02.01	2017-01-12	Mettler Toledo GmbH CH – 8606 Nänikon STS 0009	Mettler
20161144.A02.02	2017-01-12	Mettler Toledo GmbH CH – 8606 Nänikon STS 0009	Mettler

<i>Report Nr.</i>	<i>Data of Report</i>	<i>Test Laboratory, Number of accreditation</i>	<i>Short Name</i>
16-EL-0019.E03	2017-09-25	Electrosuisse Albislab CH - 8047 Zürich STS 0001	Albis
20171124.A02.01	2017-09-18	Mettler Toledo GmbH CH – 8606 Nänikon STS 0009	Mettler
20171124.A02.02	2017-09-18	Mettler Toledo GmbH CH – 8606 Nänikon STS 0009	Mettler
20181053.A02.01	2018-05-07	Mettler Toledo GmbH CH – 8606 Nänikon STS 0009	Mettler
20181053.A02.01	2018-05-02	Mettler Toledo GmbH CH – 8606 Nänikon STS 0009	Mettler
16-EL-0019.E04	2018-03-16	Eurofins Electrosuisse Product Testing AG CH - 8047 Zürich STS 0001	Eurofins

In the following table the individual tests are listed:

<i>Part in EN 50155</i>	<i>Title of tests</i>	<i>Results in test report</i>	<i>Pass?</i>	<i>Device under test</i>
12.2.1	Visual inspection	12-EL-0088.10 15-EL-0061.E02 15-EL-0364.E01 16-EL-0019.E01 16-EL-0019.E12 16-EL-0019.E03 16-EL-0019.E04	yes	NB3700 00112B002FCC NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3700-LWPb-G 00112B00F762 NB3800-2LWacDf-G 00112BFFDD0E NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B NB3711-2LcWacHd-G 00112B01890D NB3800-3LdWacCDfHd-G 00112B01880A NB3711-2LcWacPbHd-G 00112B01D475

Part in EN 50155	Title of tests	Results in test report	Pass?	Device under test
12.2.2	Performance test	12-EL-0088.10 15-EL-0061.E02 15-EL-0364.E01 16-EL-0019.E01 16-EL-0019.E12 16-EL-0019.E03 16-EL-0019.E04	yes	NB3700 00112B002FCC NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3700-LWPb-G 00112B00F762 NB3800-2LWacDf-G 00112BFFDD0E NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B NB3711-2LcWacHd-G 00112B01890D NB3800-3LdWacCDfHd-G 00112B01880A NB3711-2LcWacPbHd-G 00112B01D475
12.2.3	Cooling test ¹⁾	20121071.A02.01 20141021.A02.02 20151053.A02.01 20161044.A02.01 20161099.A02.02 20161144.A02.02	yes	NB3700 00112B002e25 00112B0047BE NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3700 00112B01070E NB3710 00112B0114ED NB3800-2LWacDf-G 00112B0114DD NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B

Part in EN 50155	Title of tests	Results in test report	Pass?	Device under test
12.2.4	Dry heat test ¹⁾	20121071.A02.01 20141021.A02.02 20151053.A02.01 20161044.A02.01 20161099.A02.02 20161144.A02.02 20181053.A02.01	yes	NB3700 00112B002e25 00112B0047BE NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3700 00112B01070E NB3710 00112B0114ED NB3800-2LWacDf-G 00112B0114DD NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B NB3711-2LcWacPbHd-G 00112B01D476 NB3711-L2Wac-G-AE 00112B01B57E
12.2.5	Damp heat, cyclic	20121071.A02.01 20141021.A02.02 20151053.A02.01 20161044.A02.01 20161099.A02.02 20161144.A02.02 20171124.A02.02 20181053.A02.01	yes	NB3700 00112B002e25 NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3700 00112B01070E NB3710 00112B0114ED NB3800-2LWacDf-G 00112B0114DD NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B NB3711-2LWacHd-G 00112B018913 NB3800-2LWacPbHd-G 00112B018918 NB3711-2LcWacPbHd-G 00112B01D476 NB3711-L2Wac-G-AE 00112B01B57E

Part in EN 50155	Title of tests	Results in test report	Pass?	Device under test
12.2.6	Supply overvoltage test	12-EL-0088.10 15-EL-0061.E02 15-EL-0364.E01 16-EL-0019.E01 16-EL-0019.E12 16-EL-0019.E03 16-EL-0019.E04	yes	NB3700 00112B002FCC NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3700-LWPb-G 00112B00F762 NB3800-2LWacDf-G 00112BFFDD0E NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B NB3711-2LcWacHd-G 00112B01890D NB3800-3LdWacCDfHd-G 00112B01880A NB3711-2LcWacPbHd-G 00112B01D475
12.2.7	Transient burst test	12-EL-0088.10 15-EL-0061.E02 15-EL-0364.E01 16-EL-0019.E01 16-EL-0019.E12 16-EL-0019.E03 16-EL-0019.E04	yes	NB3700 00112B002FCC NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3700-LWPb-G 00112B00F762 NB3800-2LWacDf-G 00112BFFDD0E NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B NB3711-2LcWacHd-G 00112B01890D NB3800-3LdWacCDfHd-G 00112B01880A NB3711-2LcWacPbHd-G 00112B01D475

Part in EN 50155	Title of tests	Results in test report	Pass?	Device under test
12.2.8	Radio interference test	12-EL-0088.10 15-EL-0061.E02 15-EL-0364.E01 16-EL-0019.E01 16-EL-0019.E12 16-EL-0019.E03 16-EL-0019.E04	yes	NB3700 00112B002FCC NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3700-LWPb-G 00112B00F762 NB3800-2LWacDf-G 00112BFFDD0E NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B NB3711-2LcWacHd-G 00112B01890D NB3800-3LdWacCDfHd-G 00112B01880A NB3711-2LcWacPbHd-G 00112B01D475
12.2.9	Insulation test	12-EL-0088.10 15-EL-0061.E02 15-EL-0364.E01 16-EL-0019.E01 16-EL-0019.E12 16-EL-0019.E03 16-EL-0019.E04	yes	NB3700 00112B002FCC NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3700-LWPb-G 00112B00F762 NB3800-2LWacDf-G 00112BFFDD0E NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B NB3711-2LcWacHd-G 00112B01890D NB3800-3LdWacCDfHd-G 00112B01880A NB3711-2LcWacPbHd-G 00112B01D475
12.2.11	Vibration and shock test	20121071.A02.01 20141021.A02.01 20151053.A02.01 20161099.A02.01 20161144.A02.01	yes	NB3700 00112B002e25 00112B0047BE NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3800-2LWacDf-G 00112B0114E0 NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B

Part in EN 50155	Title of tests	Results in test report	Pass?	Device under test
12.2.14	Low temperature storage test	20121071.A02.01 20151053.A02.01 20161099.A02.02 20161144.A02.02	yes	NB3700 00112B002e25 NB3710 00112B009FB3 NB3720 00112BFFDCD4 NB3800-2LWacDf-G 00112B0114DD NB3800-3LWacGeCPbDe 00112BFFDD6A NB3800-4L2WacDe-G 00112BFFDD6B
10.2.12	IP65	20171124.A02.01 20181053.A02.02	yes	NB3711-2LWacHd-G 00112B0188F7 NB3711-2LWacHd-G 00112B018913 NB3800-2LWacPbHd-G 00112B014F84 NB3800-2LWacPbHd-G 00112B018918 NB3711-2LcWacPbHd-G 00112B01D475

- ¹⁾ NB3700, NB3701, NB3710, NB3711 and NB3800 with up to 4 radio modules tested with TX and NB3800 with more than 4 radio modules tested with T1.