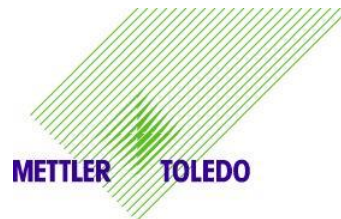


ENL Testing Laboratory
ENL Prüfstelle



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Registration No.: **STS 0009**
Registrier- Nr.:

Swiss testing service
Schweizerischer
Prüfstellendienst



TEST REPORT – Nr.:

20161044.A02.01

Generation date:
Erstellungs-Datum:

2016 – April - 08

Client:
Kunde:

NetModule AG
CH – 8400 Winterthur

Device under test:
Prüf-Objekt:

NetModule Router for Railways
NB3700 and NB3710 with new PSE Board

Test Standard
Prüfnorm:

Standard Norm	Method Methode	P	F	C
EN 60068-2-30	Db	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EN 60068-2-1	Ad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EN 60068-2-2	Bd	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

P = Pass / erfüllt; F = Fail / nicht erfüllt; C = Carried out / durchgeführt

Report Lange
Berichtssprache:

☒ : **English**

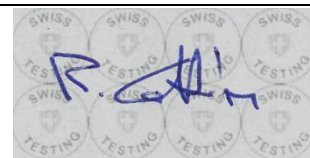
☐ : **Deutsch**

Test performed by:
Test durchgeführt durch:



Marcel Cattin
Team Leader

Test Report released
by:
Test Bericht freigegeben durch:



Roland Cattin
Project Leader

Mettler-Toledo GmbH
ENL Test Laboratory
Heuwinkelstrasse 3
CH – 8606 Nänikon

Phone: +41 44 944 22 34
Fax: +41 44 944 33 10
E-Mail: marcel.cattin@mt.com

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Dieser Bericht darf nicht auszugsweise, ohne schriftliche Genehmigung der Prüfstelle, kopiert werden.

The results of this report apply only to the devices under test listed
Die Ergebnisse in diesem Prüfbericht gelten nur für die aufgeführten Prüfobjekte.

Contents / Inhaltsverzeichnis

Part 1:	Client details / Kundenangaben.....	3
Part 2:	Data of devices under test / Daten der Prüfobjekte.....	3
Part 3:	Documentation of the device under test Dokumentation der Prüfobjekte	5
Part 4:	Peripheral units / Zusatzgeräte	7
Part 5:	Operating mode during test Betriebsart während des Tests	7
Part 6:	Test sequence Reihenfolge der durchgeführten Prüfungen	8
Part 7:	Overview of the test standards Übersicht der verwendeten Normen.....	9
Part 8:	Special occurrence / Spezielle Vorkommnisse	10
Part 8.1:	Special occurrence / Spezielle Vorkommnisse	10
Part 8.2:	Test Report History / Vorgängerberichte	10
Part 9:	Test records and additional sheets Protokolle und Zusatzblätter	10
Part 9.1:	Climatic test, cyclic: Damp Heat, cyclic	11
Part 9.2:	Climatic test, steady state: Cold, partly in operation	14
Part 9.2:	Climatic test, steady state: Dry Heat.....	16
Part 10:	Testing stations / test instruments Prüfanlagen / Prüfgeräte	18
Part 11:	Description of the initial and final measurement Beschreibung der Start- und Schlussmessungen	19
Part 12:	Test duration / Presence during the test Testdauer / Anwesenheiten	19

Part 1: Client details / Kundenangaben

Name of the company:
Name der Firma:

NetModule AG

Street:
Strasse:

Neuwiesenstrasse 37

Country / ZIP / City:
Land / PLZ / Ort:

CH - 8400 Winterthur

Telephone Nr.:
Telefon Nr.:

+41 52 209 00 44

Telephone direct Nr.:
Telefon Direktwahl Nr.:

+41 52 209 00 41

Fax No.:
Fax Nr.:

+41 52 209 00 40

Mobile Phone Nr.:
Mobiltelefon-Nr.:

E – Mail:
E – Mail:

thomas.siegrist@netmodule.com

Contact person (s):
Kontaktperson (en):

Mr Thomas Siegrist

Part 2: Data of devices under test / Daten der Prüfobjekte

Number of device (s):
Anzahl Geräte:

2

Model / Type:
Modell / Type:

NB3700 and NB3710, both with new PSE Board (50 – 136V)

Instrument description/function:
Gerätebeschreibung / Funktion:

NetModul Router for Railway Applications

Additional information :
Weitere Angaben:

During the climatic tests the devices were partly in operation, see records.

Serial- / Identifications- No.: / Serien- und Identifikationsnummern:

Test-Object Test-Objekt	Manufacturer Identification number: Hersteller Identifikationsnummer:	Identification number *) Identifikationsnummer
1	NB3700 Serial No: 00112B01070E IMEI: 860461024661533 WLAN MAC: 04f0211e5e7b Input Voltage: 50 .. 136V / 0.35A / 15W GSM: 850/900/1800/1900 MHz UMTS: 850/900/1900/2100 MHz LTE: 800(B20)/850/900/1800/1900/2100/2600 WLAN: 2.4/5 GHz contains FCC ID TK4-10-WLE200NX	01

Test-Object Test-Objekt	Manufacturer Identification number: Hersteller Identifikationsnummer:	Identification number *) Identifikationsnummer
2	NB3710 Serial No: 00112B0114ED IMEI: 860461024917992 IMEI: 860461024920681 WLAN MAC: 04f02120413b Input Voltage: 50 .. 136V / 0.35A / 15W GSM: 850/900/1800/1900 MHz UMTS: 850/900/1900/2100 MHz LTE: 800(B20)/850/900/1800/1900/2100/2600 WLAN: 2.4/5 GHz contains FCC ID TK4-10-WLE200NX	02

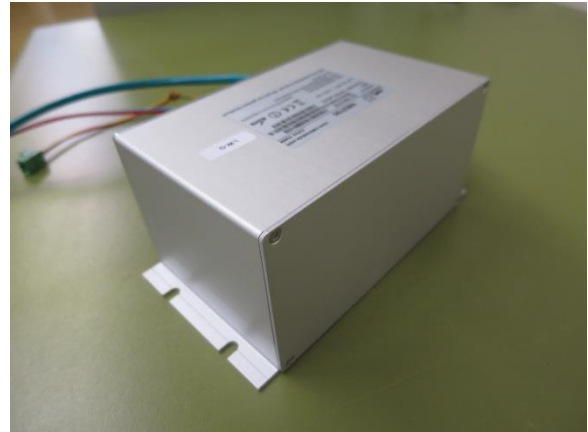
*) Identification number given by the testing laboratory
Identifikationsnummer, durch die Prüfstelle vergeben

Part 3: Documentation of the device under test Dokumentation der Prüfobjekte

Pictures of the device under test Bildokumentation



Device under test 01:
Overview



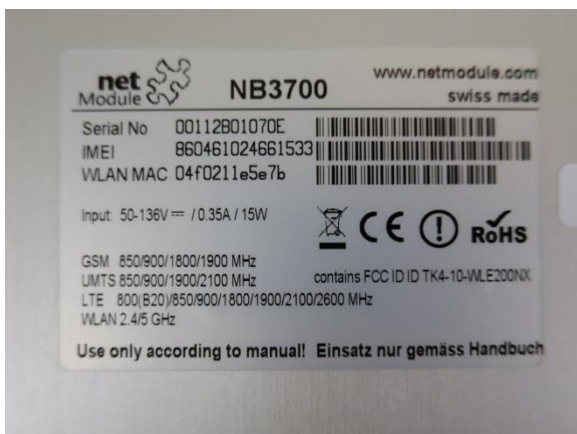
Device under test 01:
Overview (other point of view)



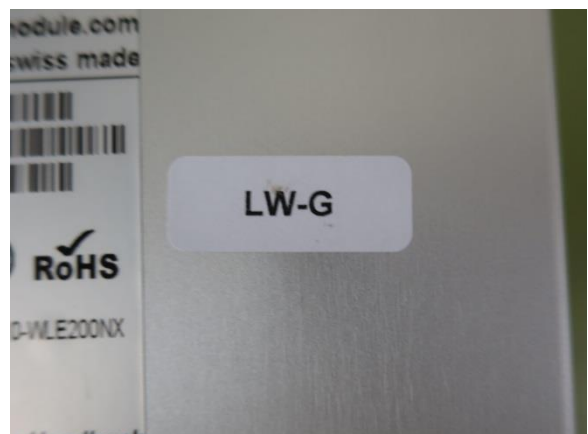
Device under test 01:
Connector field



Device under test 01:
Label 1



Device under test 01:
Label 2

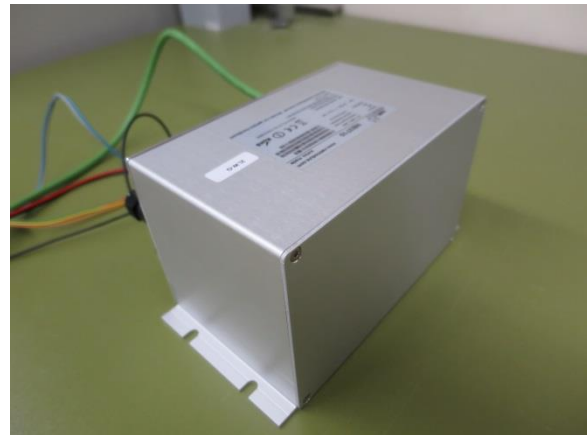


Device under test 01:
Label 3

Pictures of the device under test Bilddokumentation



Device under test 02:
Overview



Device under test 02:
Overview (other point of view)



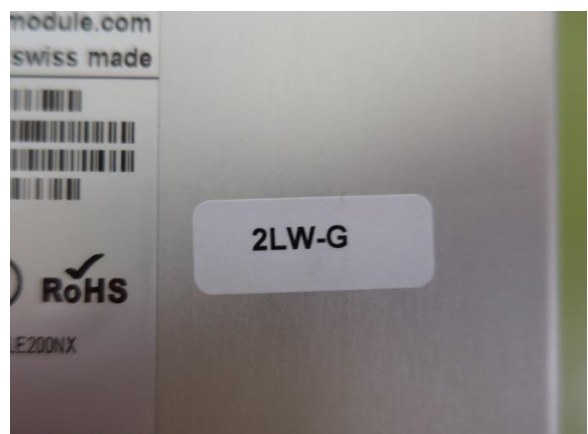
Device under test 02:
Connector field



Device under test 02:
Label 1



Device under test 02:
Label 2



Device under test 02:
Label 3

Part 4: Peripheral units / Zusatzgeräte

Number of instruments / Anzahl Geräte: **4**

<i>Unit No. Gerät Nr</i>	<i>Name of manufacturer Hersteller</i>	<i>Model / Type Modell / Typ</i>	<i>Series-Nr. Serie - Nr.</i>	<i>Description of function Funktionsbeschreibung</i>
1	Fujitsu Esprimo Mobile	V6555	YKLM089106	Data logger for NB3700
2	Dell Latitude	E5540	1PF9M12	Data logger for NB3710
3	Trendnet	TEW-672GR	UM0836R80028	WLAN AP
4	Aim-TTi	EX752M	440868	Power Supply

Part 5: Operating mode during test Betriebsart während des Tests

- ☐ Not in operation / Nicht im Betrieb
- ☐ Continuous operation / Dauerbetrieb
- ☒ Partly in operation as described in test record
Teilweise im Betrieb gemäss Protokoll

Power supply: ☒ Mains: 230V_{AC} nominal voltage / Nennspannung
Speisung: Netz 50 Hz nominal frequency / Nennfrequenz

☐ Other ---
Andere

More details / Weitere Beschreibung:

Part 7: Overview of the test standards Übersicht der verwendeten Normen

Mechanical stress / Transport simulation Mechanische Beanspruchung / Transportsimulation

Tested Ge- testet	Test designation Test Benennung	Standard Norm	Year Jahr	Device under test Testobjekte									
				1	2	3	4	5	6	7	8	9	10
<input type="checkbox"/>	Vibration Sinus	EN 60068-2-6	2008										
<input type="checkbox"/>	Vibration Sinus												
<input type="checkbox"/>	Vibration Random	EN 60068-2-64	2008										
<input type="checkbox"/>	Vibration Random	MIL-STD-810,M514	2008										
<input type="checkbox"/>	Vibration Random												
<input type="checkbox"/>	Shock	EN 60068-2-27	2009										
<input type="checkbox"/>	Shock												
<input type="checkbox"/>	Transport vibration	Mettler PP 426	1994										
<input type="checkbox"/>	Stress vibration	Mettler PP 422	1989										
<input type="checkbox"/>	Drop	Mettler PP 428	1994										
<input type="checkbox"/>	Drop	ISTA 1A	2001										
<input type="checkbox"/>	Drop	ISTA 2A	2011										
<input type="checkbox"/>	Drop												
<input type="checkbox"/>	Vibration Transport	ISTA 1A	2001										
<input type="checkbox"/>	Vibration Transport	ISTA 2A	2011										
<input type="checkbox"/>													
<input type="checkbox"/>													

Climatic- / Environment simulations Klima- / Umweltsimulation

Tested Ge- testet	Test designation Test Benennung	Standard Norm	Year Jahr	Device under test Testobjekte									
				1	2	3	4	5	6	7	8	9	10
<input checked="" type="checkbox"/>	Cold	EN 60068-2-1	2007	X	X								
<input checked="" type="checkbox"/>	Dry heat	EN 60068-2-2	2007	X	X								
<input type="checkbox"/>	Temperature cyclic	EN 60068-2-14	2009										
<input type="checkbox"/>	Damp heat steady state	EN 60068-2-56	1990										
<input checked="" type="checkbox"/>	Damp heat cyclic	EN 60068-2-30	2005	X	X								
<input type="checkbox"/>	Climatic Conditioning	ISTA 2A	2011										
<input type="checkbox"/>													
<input type="checkbox"/>													
<input type="checkbox"/>													
<input type="checkbox"/>													

Legend: X Applied / Angewendet

Part 8: Special occurrence / Spezielle Vorkommnisse

Part 8.1: Special occurrence / Spezielle Vorkommnisse

None / keine

Part 8.2: Test Report History / Vorgängerberichte

This report may have a previous version Dieser Testbericht kann eine Vorgängerversion haben	
Ref. No. / Bericht Nr.	State / Zustand
20161044.A02.01	2016-04-08: Initial test report / Erster Testbericht

Part 9: Test records and additional sheets Protokolle und Zusatzblätter

In the next pages the following test records and additional sheets are documented:
Auf den nachstehenden Seiten sind folgende Protokolle und Zusatzblätter dokumentiert:

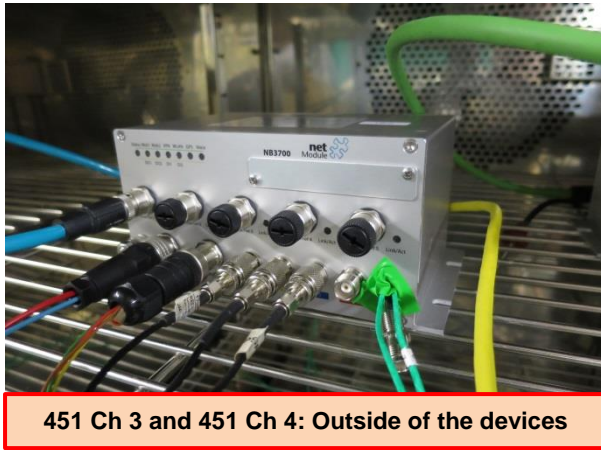
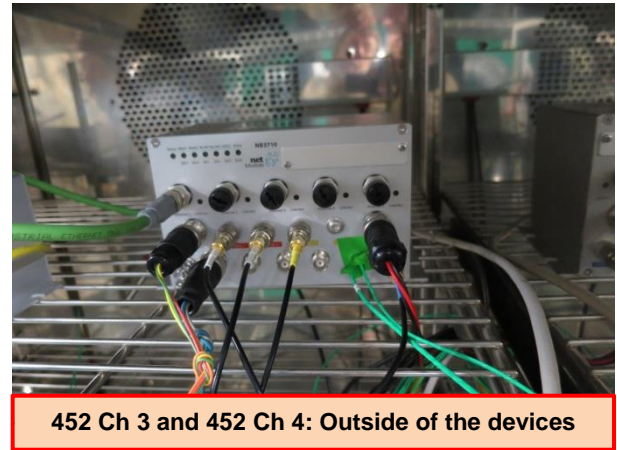
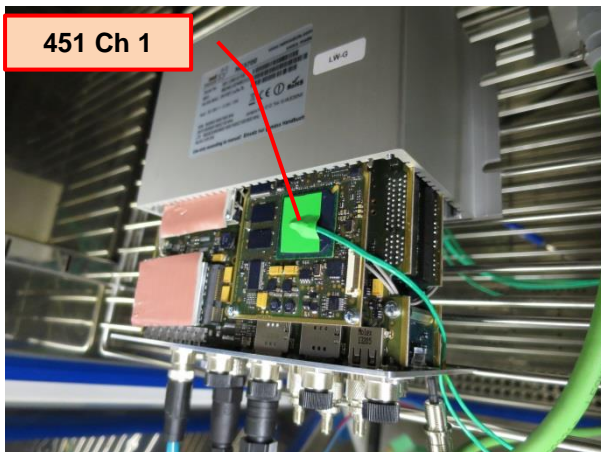
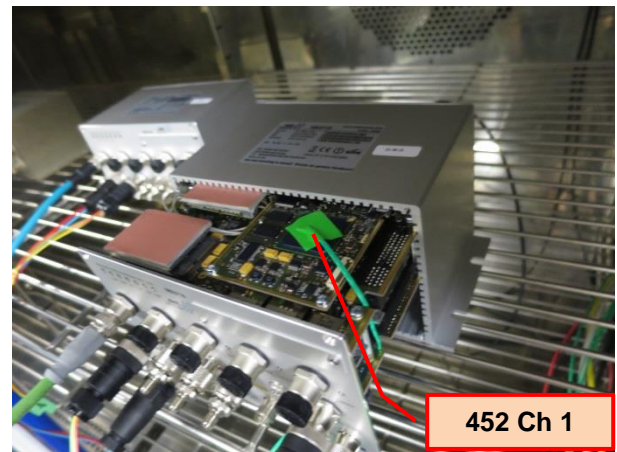
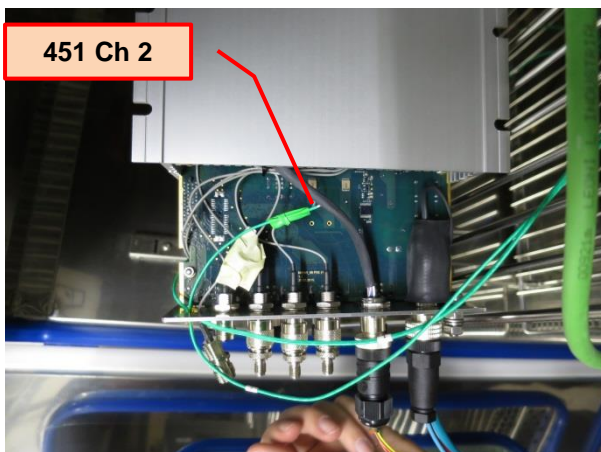
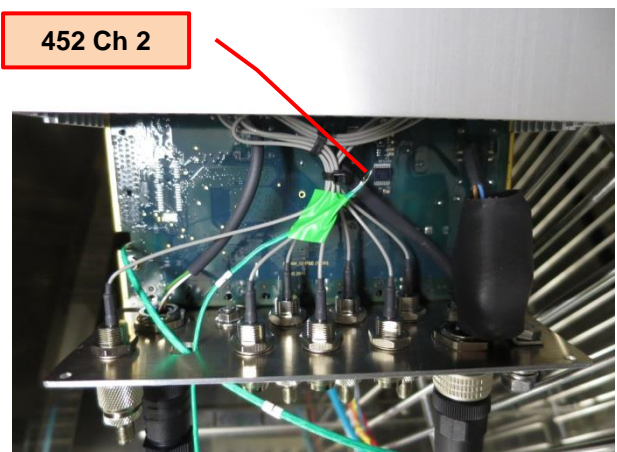
<input checked="" type="checkbox"/>	Part 9.1	Climatic test, cyclic / Klimatest Wechsel	Damp Heat, cyclic	+	2	Additional sheet (s) Zusatzblatt (-blätter)
<input checked="" type="checkbox"/>	Part 9.2	Climatic test, steady state / Klimatest konstant	Cold partly in operation	+	1	Additional sheet (s) Zusatzblatt (-blätter)
<input checked="" type="checkbox"/>	Part 9.3	Climatic test, steady state / Klimatest konstant	Dry heat	+	1	Additional sheet (s) Zusatzblatt (-blätter)

Part 9.1: Climatic test, cyclic: Damp Heat, cyclic

Type of test Art des Tests	<input checked="" type="checkbox"/> Temperature, cyclic / Temperatur Wechsel <input type="checkbox"/> Damp heat, cyclic / Feuchte Wärme, Wechsel		
Type of test / goal Art des Tests / Zweck	<input checked="" type="checkbox"/> Stress test / Stress Beanspruchung <input type="checkbox"/> Transportation / Transport <input type="checkbox"/> Zulassung		
According to standard Nach Norm oder Vorschrift	<input type="checkbox"/> EN 60068-2-14 <input checked="" type="checkbox"/> EN 60068-2-30		
Applicable Test Method Zutreffendes Prüfverfahren	<input checked="" type="checkbox"/> Db		
Test instrument Prüfgerät	ENL-P Nr. <input type="checkbox"/> 000/0298 <input checked="" type="checkbox"/> 000/0299 <input checked="" type="checkbox"/> 000 / 0451 <input checked="" type="checkbox"/> 000 / 0452		
Device under test Prüfobjekt	NB3700 and NB3710		Serial / Ident. No. Seriennummer 01+02
Client Kunde	NetModule AG, CH – 8400 Winterthur, Mr T. Siegrist		
Start-Date, Time Start-Datum, Zeit	2016-03-01, 09:50		End-Date, Time End-Datum, Zeit 2016-03-03, 16:10
High Temperature Obere Temperatur	+55°C	Humidity Feuchte 95%r.H.	Hold Time Haltezeit 9 h
Low Temperature Untere Temperatur	+25°C	Humidity Feuchte 95%r.H.	Hold Time Haltezeit 9 h
Uncertainties Temp. Messunsicherheit Temp.	± 1.2 K	Uncertainties .Humidity Messunsicherheit Feuchte	± 2.8 %r.H.
Change of temperature Temperaturrampe	<input type="checkbox"/> 1°C/min <input type="checkbox"/> Change time / Umlagerzeit < 10 s <input checked="" type="checkbox"/> Time from low to high temp: 3 hours		
Number of cycles Anzahl Zyklen	2	Time per cycle Zeit/Zyklus 24 h	Totally time Gesamtzeit 48 h
State of test object Zustand des Testobjekts	<input checked="" type="checkbox"/> Partly in operation <input type="checkbox"/> Not in operation		
Preconditioning Vorbehandlung	None	Post conditioning Nachbehandlung	Cold
Initial measurement Anfangsmessung	Done by the client		
Measurement during the test Zwischenmessung	Done by the client via remote reading		
Final measurement Endmessung	Done by the client (after all tests)		
Remarks Bemerkungen	During all temperature tests there are some temperature sensors mounted in the housing of the device under test, see picture part 9.1.1 The device under test was switched on at the beginning of the second cycle and at the end of the test, see diagram.		
Additional sheets Zusatzblätter	2	Test Test	<input checked="" type="checkbox"/> passed erfüllt <input type="checkbox"/> failed nicht erfüllt <input type="checkbox"/> carried out durchgeführt
Tested by Geprüft von	Marcel Cattin		

Part 9.1.1: Additional sheet / Zusatzblatt

to Test / zum Test:

Climatic test, cyclic: Damp Heat, cyclicDevice under test
Prüfobjekt**NB3700 and NB3710**Serial / Ident. No.
Seriennummer**01+02**Device under test **01** (NB3700)
Overview in the climatic chamberDevice under test **02** (NB3710)
Overview in the climatic chamberDevice under test **01** (NB3700)
Position of temperature sensorDevice under test **02** (NB3710)
Position of temperature sensorDevice under test **01** (NB3700)
Position of temperature sensorDevice under test **02** (NB3710)
Position of temperature sensor

Part 9.1.1: Additional sheet / Zusatzblatt

to Test / zum Test:

Climatic test, cyclic: Damp Heat, cyclicDevice under test
Prüfobjekt**NB3700 and NB3710**Serial / Ident. No.
Seriennummer**01+02**

Overview climatic chamber



Arrangement of the device under test in the climatic chamber

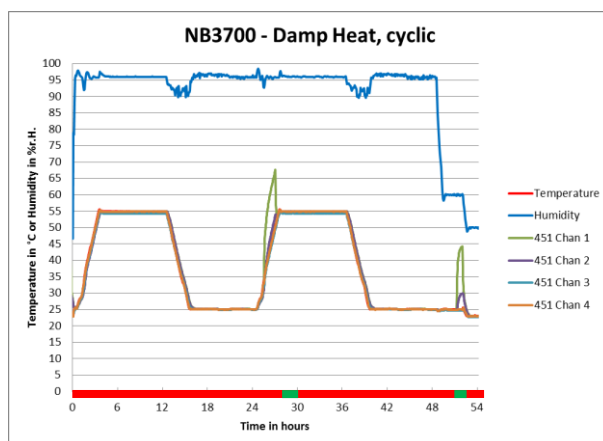


Diagram: Cold in operation

— : switched on, — : switched off

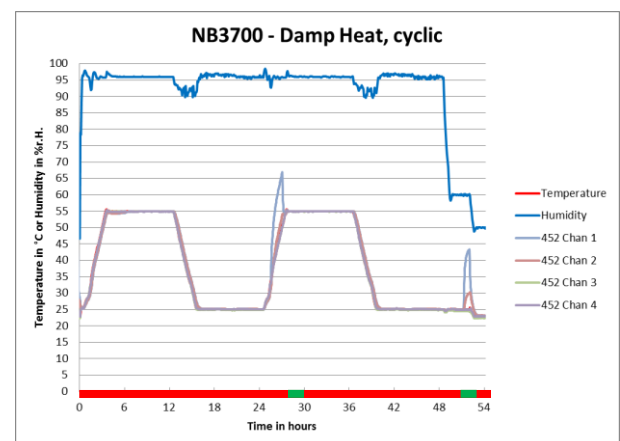


Diagram: Cold in operation, Detail

— : switched on, — : switched off

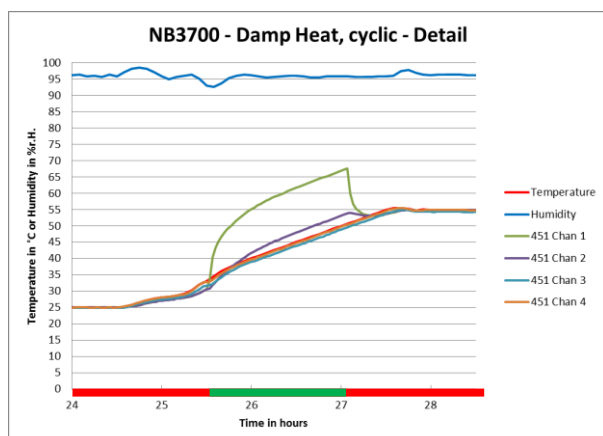


Diagram: Cold in operation

— : switched on, — : switched off

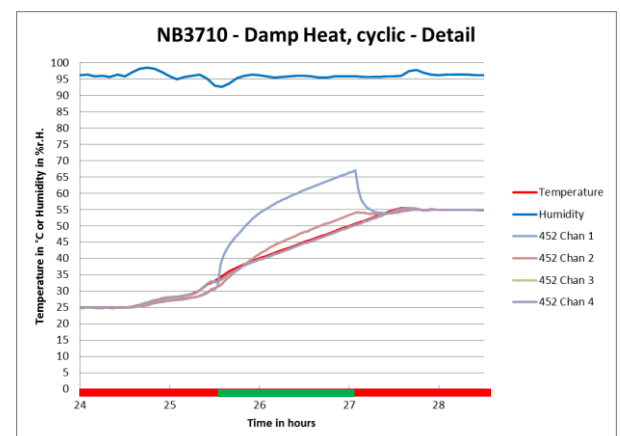


Diagram: Cold in operation, Detail

— : switched on, — : switched off

Part 9.2: Climatic test, steady state: Cold, partly in operation

Type of test Art des Tests	<input checked="" type="checkbox"/> Temperature, steady state / Temperatur konstant <input type="checkbox"/> Damp heat, steady state / Feuchte Wärme, konstant
Type of test / goal Art des Tests / Zweck	<input checked="" type="checkbox"/> Stress test / Stress Beanspruchung <input type="checkbox"/> Transportation / Transport <input type="checkbox"/> Zulassung
According to standard Nach Norm oder Vorschrift	<input checked="" type="checkbox"/> EN 60068-2-1 <input type="checkbox"/> EN 60068-2-2 <input type="checkbox"/> EN 60068-2-56 <input type="checkbox"/>
Applicable Test Method Zutreffendes Prüfverfahren	<input checked="" type="checkbox"/> Ad <input type="checkbox"/> High air velocity <input checked="" type="checkbox"/> Low air velocity *) <input checked="" type="checkbox"/> Air flow: Bottom-up
Test instrument Prüfgerät	ENL-P Nr. <input type="checkbox"/> 000/0298 <input checked="" type="checkbox"/> 000/0299 <input checked="" type="checkbox"/> 000 / 0451 <input checked="" type="checkbox"/> 000 / 0452

Device under test Prüfobjekt	NB3700 and NB3710	Serial / Ident. No. Seriennummer	01+02
Client Kunde	NetModule AG, CH – 8400 Winterthur, Mr T. Siegrist		

Start-Date, Time Start-Datum, Zeit	2016-03-03, 16:30	End-Date, Time End-Datum, Zeit	2016-03-04, 13:05
Temperature Temperatur	-40°C	Humidity Feuchte	uncontrolled
Uncertainties Temp. Messunsicherheit Temp.	± 1.8 K	Duration Dauer	16 h
Cooling and/or warming up procedure Abkühlungs- bzw. Erwärmungsvorgang	<input type="checkbox"/> Device under test into the preheating / precooling chamber Prüfkörper in vortemperierte Kammer <input type="checkbox"/> Max possible heating / cooling rate / Ofenkonstante <input checked="" type="checkbox"/> 1 °C/min		
State of test object Zustand des Testobjekts	<input checked="" type="checkbox"/> Partly in operation <input type="checkbox"/> Not in operation		
Preconditioning Vorbehandlung	Damp Heat, cyclic	Post conditioning Nachbehandlung	Dry Heat

Initial measurement Anfangsmessung	Done by the client
Measurement during the test Zwischenmessung	Done by the client via remote reading
Final measurement Endmessung	Done by the client (after all tests)

Remarks Bemerkungen	During all temperature tests there are some temperature sensors mounted in the housing of the device under test, see picture part 9.1.1 The device under test was switched on for the last 60 minutes of the test *): Heating with free air circulation: max 9.5K, Heating with forced circulation: max 6 K
------------------------	--

Additional sheets Zusatzblätter	1	Test Test	<input checked="" type="checkbox"/> passed erfüllt	<input type="checkbox"/> failed nicht erfüllt	<input type="checkbox"/> carried out durchgeführt
Tested by Geprüft von	Marcel Cattin				

Part 9.2.1: Additional sheet / Zusatzblatt

to Test / zum Test:

Climatic test, steady state: Cold, partly in operationDevice under test
Prüfobjekt**NB3700 and NB3710**Serial / Ident. No.
Seriennummer**01+02**

Overview climatic chamber



Arrangement of the device under test in the climatic chamber

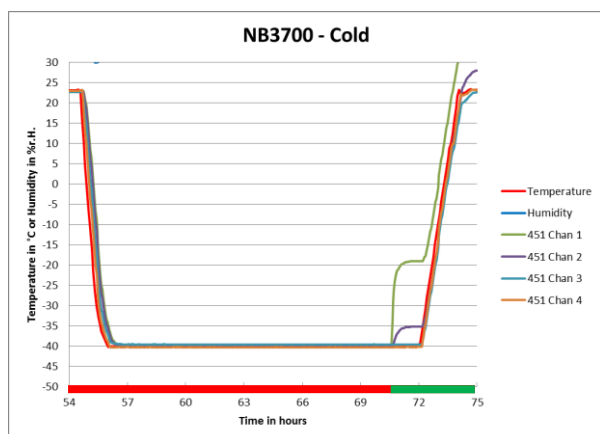


Diagram: Cold in operation

— : switched on, — : switched off

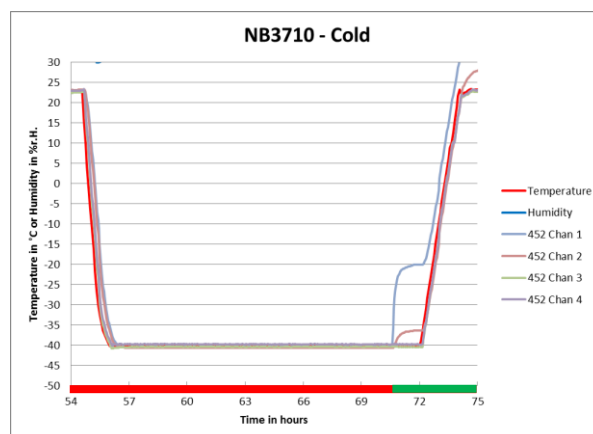


Diagram: Cold in operation, Detail

— : switched on, — : switched off

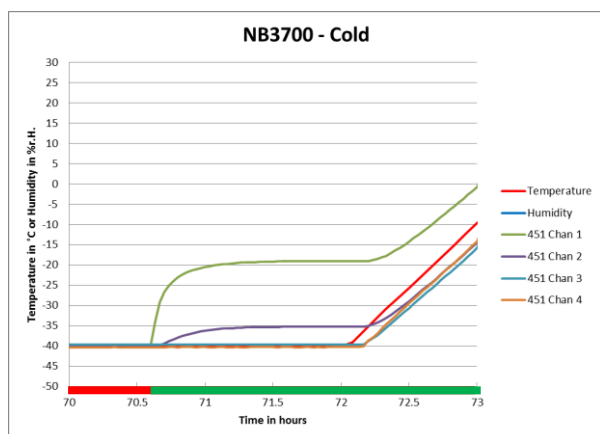


Diagram: Cold in operation

— : switched on, — : switched off

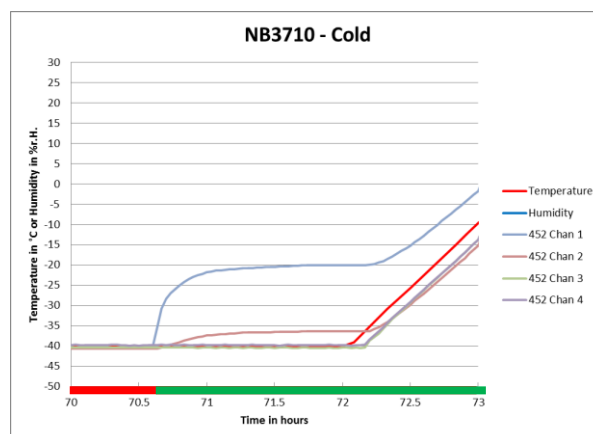


Diagram: Cold in operation, Detail

— : switched on, — : switched off

Part 9.3: Climatic test, steady state: Dry Heat

Type of test Art des Tests	<input checked="" type="checkbox"/> Temperature, steady state / Temperatur konstant <input type="checkbox"/> Damp heat, steady state / Feuchte Wärme, konstant		
Type of test / goal Art des Tests / Zweck	<input checked="" type="checkbox"/> Stress test / Stress Beanspruchung <input type="checkbox"/> Transportation / Transport <input type="checkbox"/> Zulassung		
According to standard Nach Norm oder Vorschrift	<input type="checkbox"/> EN 60068-2-1 <input checked="" type="checkbox"/> EN 60068-2-2 <input type="checkbox"/> EN 60068-2-56 <input type="checkbox"/>		
Applicable Test Method Zutreffendes Prüfverfahren	<input checked="" type="checkbox"/> Bd <input type="checkbox"/> High air velocity <input checked="" type="checkbox"/> Low air velocity <input checked="" type="checkbox"/> Air flow: Bottom-up		
Test instrument Prüfgerät	ENL-P Nr. <input type="checkbox"/> 000/0298 <input checked="" type="checkbox"/> 000/0483 <input checked="" type="checkbox"/> 000 / 0451 <input checked="" type="checkbox"/> 000 / 0452		
Device under test Prüfobjekt	NB3700 and NB3710		Serial / Ident. No. Seriennummer 01+02
Client Kunde	NetModule AG, CH – 8400 Winterthur, Mr T. Siegrist		
Start-Date, Time Start-Datum, Zeit	2016-03-06, 15:05		End-Date, Time End-Datum, Zeit 2016-03-07, 11:00
Temperature Temperatur	+70°C	Humidity Feuchte uncontrolled	Duration Dauer 16 h
Uncertainties Temp. Messunsicherheit Temp.	± 1.2 K	Uncertainties Humidity Messunsicherheit Feuchte ---	
Cooling and/or warming up procedure Abkühlungs- bzw. Erwärmungsvorgang	<input type="checkbox"/> Device under test into the preheating / precooling chamber Prüfkörper in vortemperierte Kammer <input checked="" type="checkbox"/> 1 °C/min		
State of test object Zustand des Testobjekts	<input checked="" type="checkbox"/> In operation <input type="checkbox"/> Not in operation		
Preconditioning Vorbehandlung	Cold in operation	Post conditioning Nachbehandlung	none
Initial measurement Anfangsmessung	Done by the client		
Measurement during the test Zwischenmessung	Done by the client via remote reading		
Final measurement Endmessung	Done by the client (after all tests)		
Remarks Bemerkungen	During all temperature tests there are some temperature sensors mounted in the housing of the device under test, see picture part 9.1.1 The temperature of the climatic chamber was rising for 10 minutes to +85°C, see diagram		
Additional sheets Zusatzblätter	1	Test Test	<input checked="" type="checkbox"/> passed erfüllt <input type="checkbox"/> failed nicht erfüllt <input type="checkbox"/> carried out durchgeführt
Tested by Geprüft von	Marcel Cattin		

Part 9.3.1: Additional sheet / Zusatzblatt

to Test / zum Test:

Climatic test, steady state: Dry HeatDevice under test
Prüfobjekt**NB3710 and NB3720**Serial / Ident. No.
Seriennummer**01+02**

Overview climatic chamber



Arrangement of the device under test in the climatic chamber

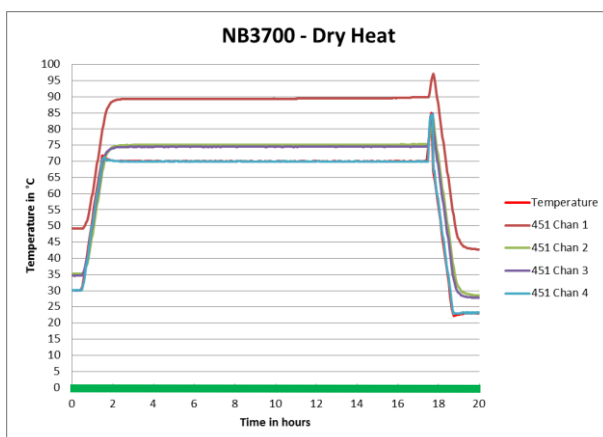


Diagram: Cold in operation

— : switched on, — : switched off

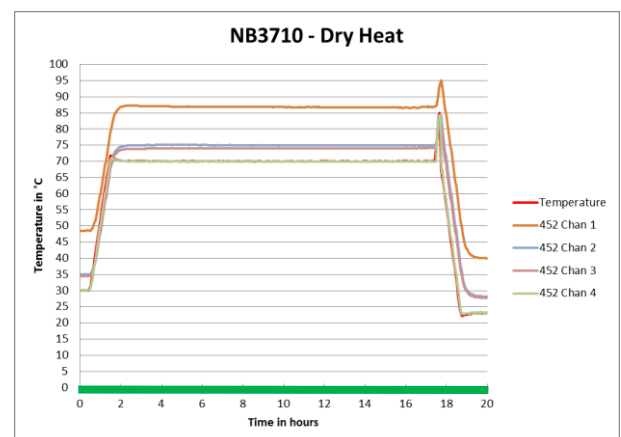


Diagram: Cold in operation, Detail

— : switched on, — : switched off

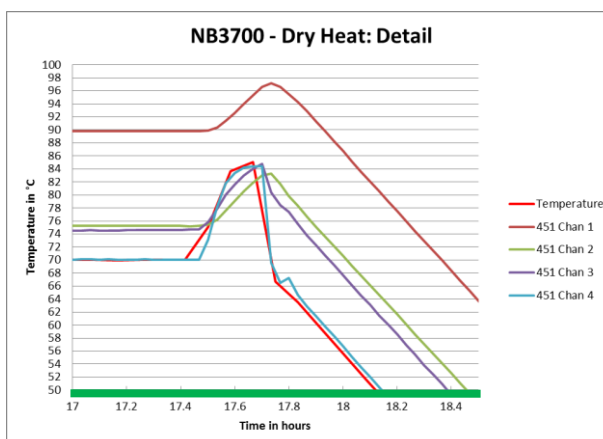


Diagram: Cold in operation

— : switched on, — : switched off

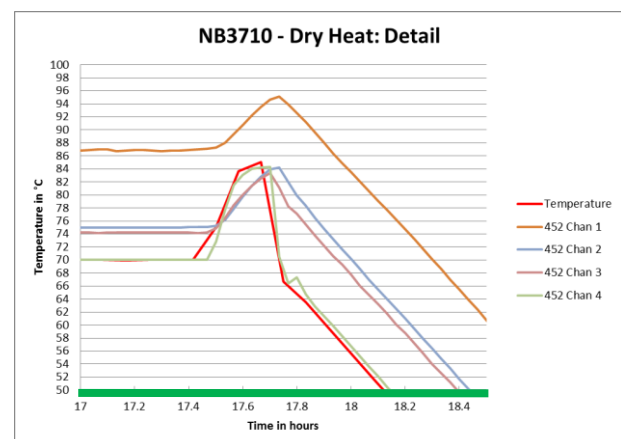


Diagram: Cold in operation, Detail

— : switched on, — : switched off

Part 10: Testing stations / test instruments Prüfanlagen / Prüfgeräte

Followed testing instruments are needed in this test procedure:

Measurement Uncertainty:

Measurement uncertainties for the test methods are available on customer request

Folgende Testeinrichtungen wurden in dieser Prüfung verwendet:

Messunsicherheit:

Angaben zur Messunsicherheit können auf Wunsch abgegeben werden.

	Equipment / Gerät	Identification number of the ENL Testing laboratory	Last Calibration	Next Calibration
Climatic tests / Klimaprüfungen				
<input type="checkbox"/>	Climatic chamber CTS C-40/600 Klimaschrank CTS C-40/600	ENL-P 000 / 0483	2015-05	2016-05
<input type="checkbox"/>	Climatic chamber CTS C-70/1000 Klimakammer CTS C-70/1000	ENL-P 000 / 0298	2015-01	2016-06
<input checked="" type="checkbox"/>	Climatic chamber CTS C-40/350 Klimakammer CTS C-40/350	ENL-P 000 / 0299	2015-11	2017-05
<input type="checkbox"/>	Climatic chamber Heräus Vötsch HC 4020 Klimaschrank Heräus Vötsch HC 4020	ENL-P 000 / 0436	2015-04	2016-04
<input type="checkbox"/>	Climatic chamber (Lift) VSM 2/08/22/120 Klimaschrank (Lift) VSM 2/08/22/120	ENL-P 000 / 0297	2015-10	2016-10
<input type="checkbox"/>	Thermo-Hydro-Logger Rotronic LOG-HC2-RC Thermo-Hydro-Logger Rotronic LOG-HC2-RC	ENL-P 000 / 0468	2015-04	2016-04
<input checked="" type="checkbox"/>	Temp-Logger Testo 176T4 Temp-Logger Testo 176T4	ENL-P 000 / 0451	2015-04	2016-04
<input checked="" type="checkbox"/>	Temp-Logger Testo 176T4 Temp-Logger Testo 176T4	ENL-P 000 / 0452	2015-04	2016-04
Vibration / Vibrationstests				
<input type="checkbox"/>	Vibration Control System VibPilot m+p - Jerry Vibrationsregelsystem VibPilot m+p – Jerry	ENL-P 000 / 0467	2015-10	2017-04
<input type="checkbox"/>	Vibration Control System VibPilot m+p - Tom Vibrationsregelsystem VibPilot m+p – Tom	ENL-P 000 / 0465	2015-10	2017-04
<input type="checkbox"/>	RMS SW 3007 / RMS TGA 3005 RMS SW 3007 / RMS TGA 3005	ENL-P 062 / 0129 ENL-P 062 / 0130	2015-10	2017-04
<input type="checkbox"/>	Accelerometer built in Beschleunigungsaufnehmer eingebaut	ENL-P 000 / 0392	2015-10	2017-04
<input type="checkbox"/>	RMS SW 6007 / RMS TGA 6005 RMS SW 6007 / RMS TGA 6005	ENL-P 063 / 0302 ENL-P 063 / 0303	2015-10	2017-04
<input type="checkbox"/>	Accelerometer built in Beschleunigungsaufnehmer eingebaut	ENL-P 066 / 0318	2015-10	2017-04
<input type="checkbox"/>	Additional Accelerometer Zusätzlicher Beschleunigungsaufnehmer	ENL-P 000 / 0417	2015-10	2017-04
<input type="checkbox"/>	Additional Accelerometer Zusätzlicher Beschleunigungsaufnehmer	ENL-P 066 / 0137	2015-10	2017-04
<input type="checkbox"/>	Additional Accelerometer Zusätzlicher Beschleunigungsaufnehmer	ENL-P 066 / 0309	2015-10	2017-04
HV				
<input type="checkbox"/>	Safety and Functional Analyzer GLP2-ce Hochspannungsgerät Schleich GLP2-ce	ENL-P 000 / 0438	2015-07	2016-07
<input type="checkbox"/>				

Part 11: Description of the initial and final measurement Beschreibung der Start- und Schlussmessungen

The measurements before, during and after the climatic tests were done (partly by via remote reading) by the client.

The router is connected to a notebook computer via the Ethernet and WLAN.
Over these connections the data are collected from the Internet over both mobile connections (LTE), WLAN-AP and GPS. The serial- and the I/O interfaces are tested by the appertaining application on the notebook computer.

The copies of the records of the measured data can be found by the client.
No failure detected (Mail from 2016-03-15)

Part 12: Test duration / Presence during the test Testdauer / Anwesenheiten

Test started on : / Prüfung gestartet am: **2016-03-01**

Test completed on : / Prüfung abgeschlossen am: **2016-03-07**

Present during the test / Während der Prüfung anwesend **---**