

Network Tester LTE

HANDBOOK

ENQT



Do you have questions about our products?

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About Network Tester LTE

The LTE network tester (hereinafter referred to as NT) is a high-end measuring device for mobile networks to support your digitization project.

The following instructions will introduce you to the functions of the NT.

Differentiation network tester LTEelite / LTE / LTE+ / LTEmax

The illustrations in this manual refer to the LTE+ and LTEmax network testers. The LTE and LTEelite network testers are not illustrated in this document.

General notes

Please note:

- Please use only the supplied charging cable and the supplied and approved accessories to charge the power tester!
- The included stylus is recommended for input! The display also responds to direct touch inputs, but is optimized for handling the input pen!

Quick guide & safety instructions

ATTENTION:

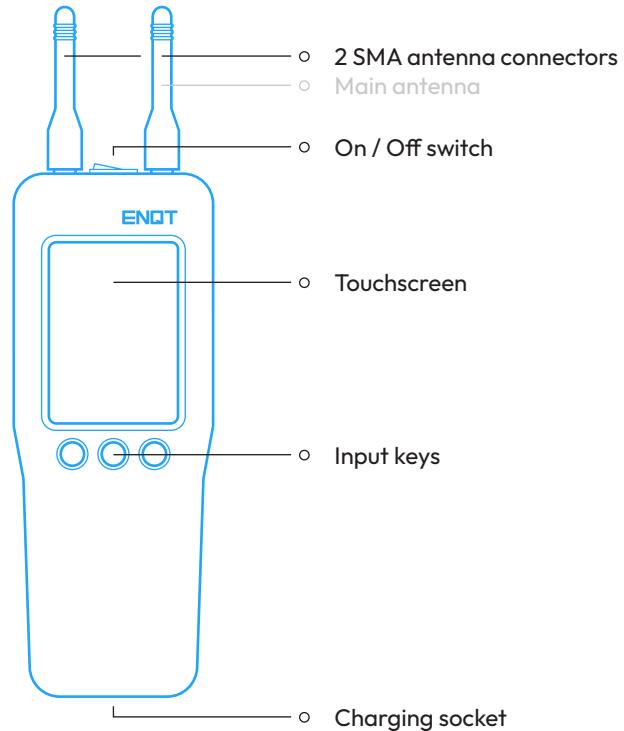
Do not screw the antennas too tightly, otherwise there is a risk of damaging the device.

Safety instructions:

! Do not use the device during thunderstorms.

! Use only antennas suitable for GSM communication.

! Do not use the device with external antenna amplifiers.



Functions of the network tester

Function overview

ENQT's network testers LTE have various functions depending on the equipment, which are listed in more detail below. The individual functions are explained in more detail in this chapter. Which version you have is indicated on the top left of the tester above the display. If you still have a previous version, the LTE corresponds to the TMate Field Live and the LTEmax to the TMate Field Complete.

	LTE Lite	LTE	LTE+	LTEmax
2G/3G/4G	✓	✓	✓	✓
Counter test	✓	✓	✓	✓
LiveSignal	✓	✓	✓	✓
Language support	✓	✓	✓	✓
Simple video tutorials	✓	✓	✓	✓
Provider configuration	✓	✓	✓	✓
Survey+ (Interval measurement)		✓	✓	✓
Stable carrying case		✓	✓	✓

RSSI/RSRP/RSRQ Switch		✓	✓	✓
International networks		✓	✓	✓
LiveHistory (History diagram)		✓	✓	optional
Local measurement data export		✓	✓	✓
InstaMeasure		✓	✓	✓
Color coding		✓	✓	✓
EasyIntegration (QR-Scan)			optional	optional
Ongoing updates			✓	✓
Remote maintenance & configuration			✓	✓
Export Live-Measurement data			✓	✓
Speedtests & Transit time measurement				✓
Measurement data portal				✓
ChannelScan				✓
API-Integration				✓
FrequencyLock				✓
CloudSync				✓

Switching the device on / off

Make sure that the power tester is sufficiently charged. The NT is switched on/off via the toggle switch on the top of the device. The device boots up in approx. 20 seconds.



Start screen / status screen

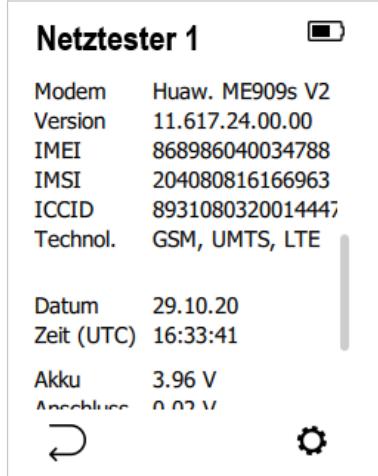
The start screen may vary on the different devices. The NT LTEelite does not have an export function. The NT LTEmax uploads measured data directly to the measurement data portal. Therefore, these devices do not have an „Export“ selection on the start screen.



1 - Start screen

Here you can see the current charge status as well as the synchronization status. Furthermore, you can reach from here by clicking on:

- › [the ENQT Logo](#): the status screen.
- › [on COUNTER TEST](#): the meter entry screen and then the possibility of full net metering.
- › [on SIGNAL](#): the possibility to measure live the attenuation of a provider & standard.
- › [on PROVIDER](#): the possibility to make settings regarding the providers to be tested.
- › [on EXPORT](#): the possibility to export your measurement data from the device via WLAN. (LTE and LTE+)



2 - Status screen

By clicking on the ENQT logo you reach the status screen.

The following data can be checked here:

- › Serial number of the device
- › Software version
- › Modem ID
- › IMEI
- › IMSI
- › Battery voltage
- › Charging voltage
- › System time & date
- › Cloud sync status
- › General status
- › Last error message

Counter test / measurement



1 - Status screen

Clicking on „COUNTER TEST“ will take you to the counter input screen.

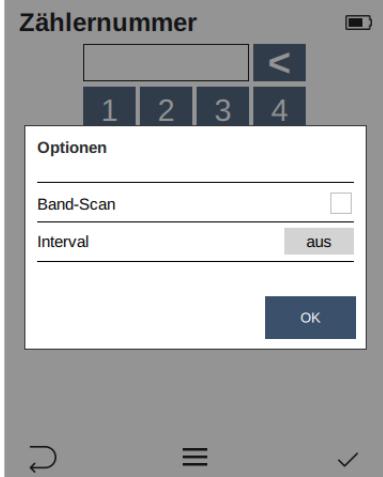
Zählernummer 

			<
A	B	C	D
E	F	G	H
I	J	K	L
1234 5678 90	ABCD EFGH IJKL	MNOP QRST UVWX	YZ ⁺ [;] ?/0
			

2 - Counter test

Here they can enter the number of the meter at the test location.
Alphanumeric entries are also possible to enter meter point designations.

Confirm your input by pressing the right Enter key.

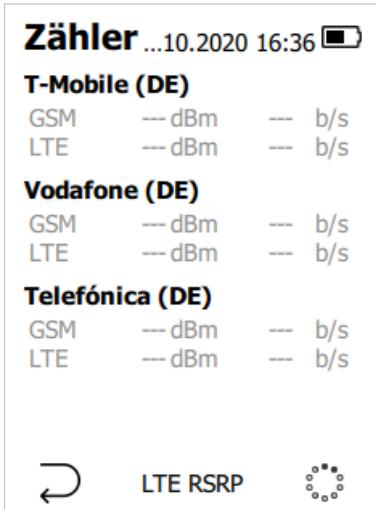


2.1 - Additional measurement functions

By clicking on the middle enter button, you will get to further measurement options.

You can set a band scan or a measurement interval here to perform several measurements in succession.

If you want to cancel the operation, press the left Enter key on the device.



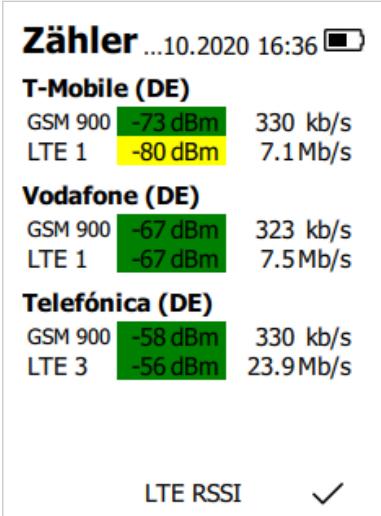
3 - Measurement

The measurement to the previously entered meter number is started. You can see live the progress for the respective provider & mobile standard. During the measurement, numerous technical data are recorded.

You can choose between RSRQ, RSRP and RSSI display. The band used is displayed directly (LTE, LTE+ and LTEmax).

You can cancel this process at any time by pressing the left Enter key.

If you want to customize the list of providers and/or standards to be measured, you can select this via the start screen under the „Provider“ item.

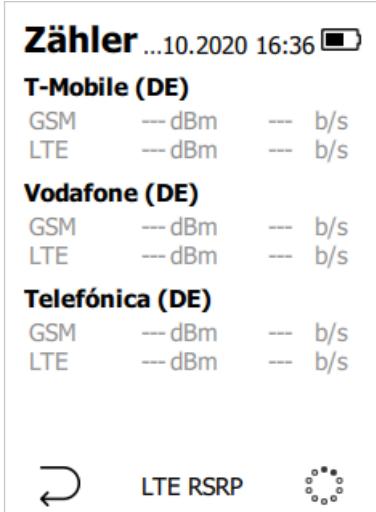


4 - Measurement result

When the measurement is complete, you can view the data directly.

By pressing the right enter key you confirm the measurement. The data are now available for export.(LTE only LTE+)

ATTENTION: The data for this specific measurement can then only be displayed there and no longer directly on the device.



5 - Data export

Once you have confirmed the measurement, you will return to the start screen.

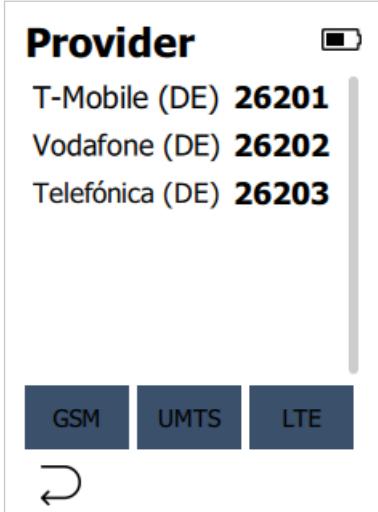
A small symbol now appears at the top of the display when „EXPORT“ is selected. This indicates that a measurement from the device is ready for export. The number indicates how many new measurements are currently available. (LTE and LTE+)

Signal



1 - Start screen

From the home screen, click on „SIGNAL“ to access the feature to measure the current attenuation of the signal for a provider & standard live.

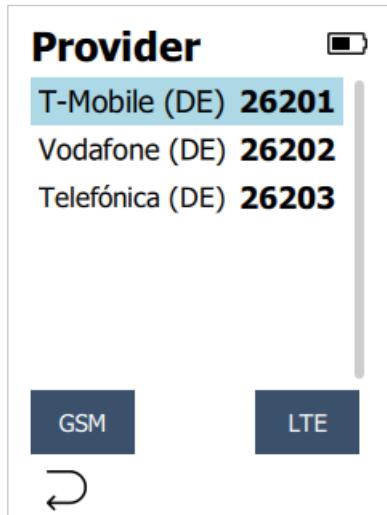


2 - Signal

After clicking on Signal you have the possibility to choose the desired provider.

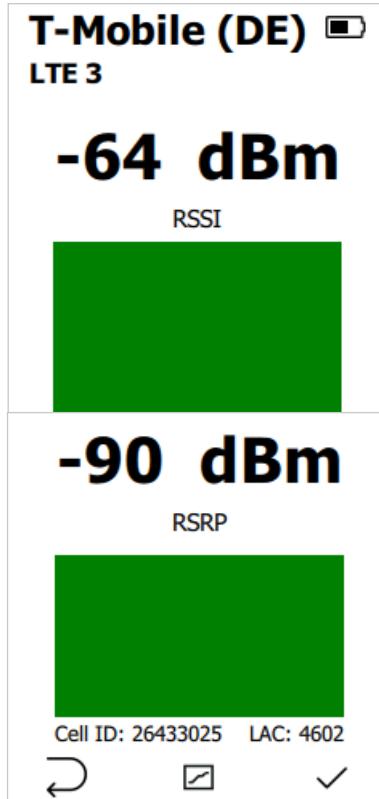
Click on a desired provider and then on the desired standard at the bottom, for live signal measurement of attenuation. You can cancel the process if you click on the arrow at the bottom left.

Then you will return to the home screen.



3 - Provider selection

When you have selected the provider and the standard, you can start the measurement by pressing the Enter key at the bottom right.



4 - Live display

The bar rises and turns from red to yellow to green, the better the currently measured attenuation turns out to be.

The traffic light is defined as follows for the RSSI measurement:

RSSI > -80

RSSI > -105

RSSI > -125

RSSI <

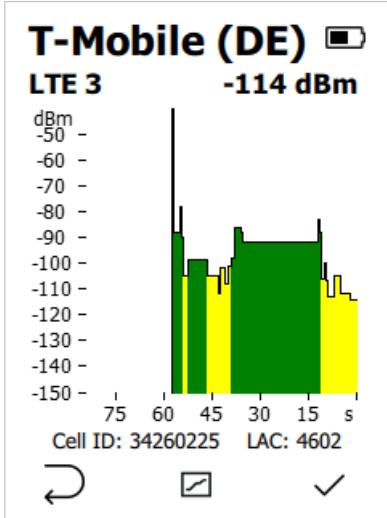
(LTE, LTE+ and LTEmax)

Depending on the technology and device configuration, the attenuation (RSSI), the signal quality (RSRP) or the reference signal (RSRQ) is displayed here.

Additionally, the currently used cell is displayed with Cell ID and LAC.

Pressing the left Enter key will take you back to the previous selection.

Confirm the measurement with the right enter key, you will return to the start screen.



5 - Live display bar graph

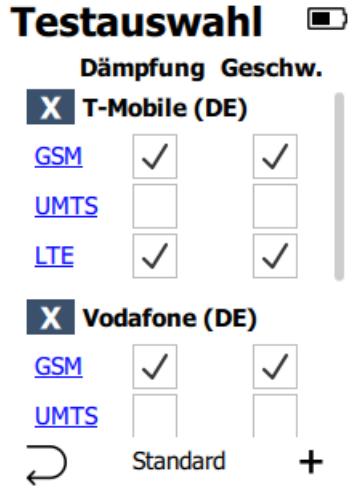
Pressing the middle Enter key or pressing the history symbol on the touchscreen takes you to a bar graph. This is a visualization of the attenuation values measured over time. (LTE, LTE+ and LTEmax)

Provider - selection and editing



1 - Start screen

From the home screen, click on „PROVIDER“ to access the feature to customize the list of providers & standards to be tested.



2 - Test selection / setting of bands and frequencies

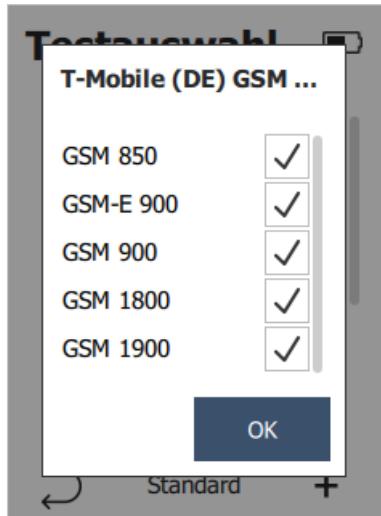
Click on „X“ to remove a provider from the list. Otherwise you can switch on/off the individual standards or the attenuation measurement or the data speed measurement.

By clicking on the respective standard (GSM / UMTS / LTE), you can make settings for these with regard to the bands and frequencies (step 2.1-2.3).

Pressing the left Enter key will take you back to the Home screen.

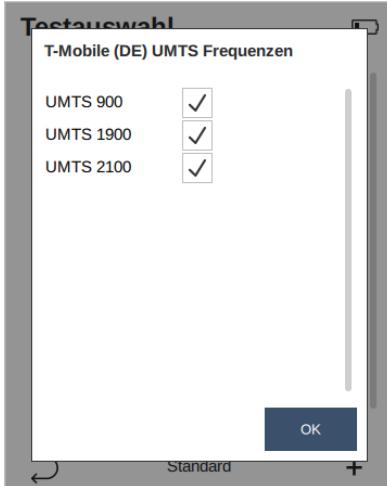
Pressing the middle Enter key will set the default configuration (see Step 3).

By pressing the right Enter key, you can add a provider to the list (see step 4).



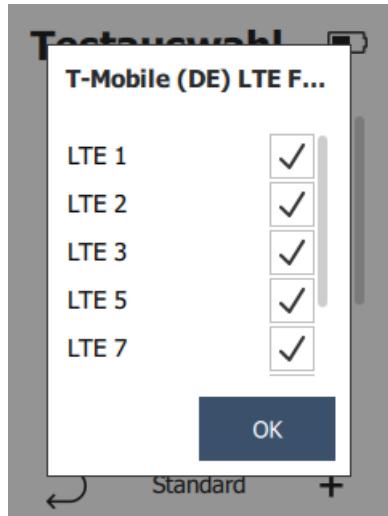
2.1 - Ex. settings GSM Telekom

In the displayed list you can select the frequencies to be tested in the GSM network and confirm them with OK.



2.2 - Ex. settings UMTS Telekom

In the displayed list you can select the frequencies to be tested in the UMTS network and confirm them with OK.



2.3 - Ex. settings LTE Telekom

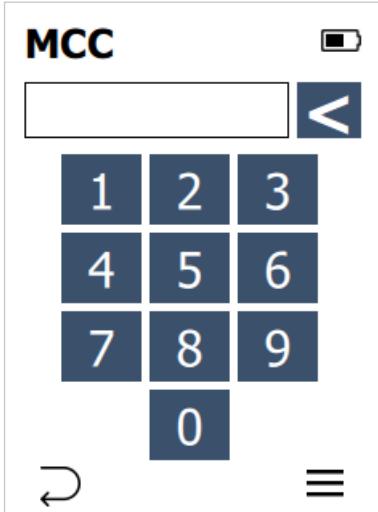
In the list that appears, you can select the frequencies to be tested in the LTE network and confirm them with OK.



3 - Default restore

If you pressed the middle Enter key in the step before, you will get the warning message to reset the provider configuration.

With OK you confirm this, with CANCEL the current configuration remains.



4 - Add provider

If you pressed „+“ in the step before, you will get this input mask.

If you know the MCC (country code) of the desired provider, you can enter it here.

Using the right Enter key, you can access the MCC overview. You can cancel the process by pressing the left Enter key.

If you have accidentally deleted a provider, you can add it again this way.
(LTE, LTE+ and LTEmax)

Land	
Abkhazia	289
Afghanistan	412
Albania	276
Algeria	603
American Sa...	544
Andorra	213
Angola	631
Anguilla	365

5 - MCC overview

First find the country code of the provider you want to add. Mark it by clicking on the entry and then confirm with the right enter key.
The NT supports all providers in the EU, worldwide on request.
You can cancel the process by pressing the left enter key.

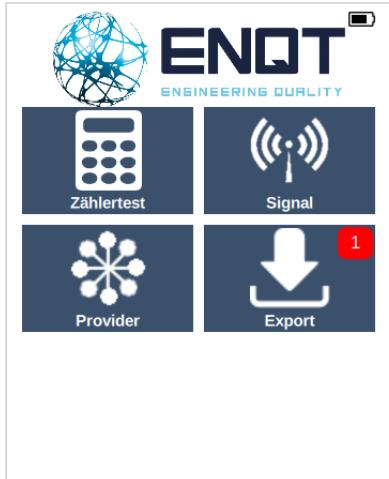
France	
Tel/Tel	20800
Orange	20801
Orange	20802
MobiquiThings	20803
SISTEER	20804
GlobalStar	20805
GlobalStar	20806
GlobalStar	20807
S.F.R.	20809
S.F.R.	20810
S.F.R.	20811
S.F.R.	20813
Iliad/FRFF Mobile	20814

6 - Provider Choice

Select the appropriate provider by clicking on it and confirm the operation by pressing the right Enter key.

The provider has now been added to the list for measurements etc. You can cancel the operation by pressing the left Enter key.

Datenexport LTE und LTE+



1 - Export

From the start screen, click on „Export“ to access the feature to export your measurement data from the handheld device.



2- Hotspot

After pressing „Export“, your Netztester LTE will automatically open a hotspot.
Connect to a desired WLAN-enabled device using the displayed SSID (network name) and PSK (password / enter hyphens as well).
Then enter the specified URL (IP address) in the browser.

As soon as you have successfully established the connection and entered the URL in the browser on your end device, you will see the following screen, which provides you with various options in addition to the ID of your device:

The screenshot displays a web interface for a network tester. At the top left is the ENOT logo with the text "ENOT ENGINEERING DURLITY". To its right is the device identifier "Netztester 1 — 11-25bf-tm". On the far right are two blue links: "Messungen" and "Einstellungen". A horizontal line separates the header from the main content. The main content area has a light gray background. It features a section titled "Messungen" with a bold font. Below this, there are two rows of data: "Neue Messungen" followed by the number "1", and "Messungen insgesamt" followed by the number "1". To the right of the "Neue Messungen" row is a blue button labeled "Neue Messungen exportieren". To the right of the "Messungen insgesamt" row is a white button labeled "Alle Messungen exportieren". At the bottom left of the main content area is a gray button labeled "Alle Messungen löschen". Another horizontal line is located below the main content area.

Neue Messungen	1	Neue Messungen exportieren
Messungen insgesamt	1	Alle Messungen exportieren

Alle Messungen löschen

Figure 1: Network tester LTE export browser view

You start in the Measurements area. The currently available new measurements and the total number of measurements are displayed here. You now have the option to export only the new measurements or to export all existing measurements together.

You can also delete the saved measurement data at this point.

The screenshot shows a web-based interface for a network tester. At the top, there is a logo for 'ENOT ENGINEERING SECURITY' and the text 'Netztester 1 — 11-25bf-tm'. On the right side of the header, there are two blue links: 'Messungen' and 'Einstellungen'. Below the header, the word 'Messungen' is centered above a horizontal line. Underneath this line, there are two rows of data. The first row contains the text 'Neue Messungen' followed by the number '0' and a light gray button labeled 'Neue Messungen exportieren'. The second row contains the text 'Messungen insgesamt' followed by the number '1' and a white button labeled 'Alle Messungen exportieren'. At the bottom left of this section, there is a red button labeled 'Alle Messungen löschen'.

Figure 2: Network tester LTE export browser view 2

However, this only works if you have successfully exported the measurement data at least once (security function). The measurement values are output as a .csv file.

In addition to the measurements, you also have the option of viewing further information about your terminal device. This can be very helpful, especially in the event of a fault clearance. You can also synchronize the system time with that of your terminal device, view the current firmware version and download the error log.

The screenshot shows a web-based interface for a Network Tester. At the top, there is a logo for 'ENOT ENGINEERING QUALITY' and the text 'Netztester 1 — 11-25bf-tm'. To the right, there are navigation links for 'Messungen' and 'Einstellungen'. The main content area is titled 'Einstellungen' and contains several sections with device information and configuration options:

- Geräteinformationen**:
 - Model: Netztester 1
 - Seriennummer: 11-25bf-tm
 - Modem: Huawei Technologies Co., Ltd. ME909s-120 V2
 - Version: 11.617.24.00.00
 - IMEI: 868986040306400
 - IMSI: 234500027078510
 - ICCID: 8944501205200785103
 - Technologien: GSM, UMTS, LTE
 - Freier Speicher: 5.350 MB
 - Akku: 51%
- Firmware**:
 - Softwareversion: 0.9.42
 - OS Version: 115
 - [Hochladen](#)
- Lizenz und Fernkonfiguration**:
 - Lizenznummer: c6ca374d
 - Erstellt am: 14.12.20
 - Optionen: Messungskonfiguration, Leernummer, Auslandsprovider, Live-Bluetooth, Live-WLAN, LTE, Signalmessgrößenumschaltung, Bandanzeige, Livediagramm, Mitteltastenschnelltest, Wiederholungsmessungen, Farbiger Zählertest
 - [Hochladen](#)
- Gerätezeit**:
 - Datum: 18.01.21
 - Zeit: 15:41
 - [Vom Browser übernehmen](#)
- Protokoll**:
 - [Herunterladen](#)

Figure 3: Network tester LTE export browser view 3

Data export LTEmax

The NT LTEmax sends the measured meter reading data directly to the measurement data portal provided by ENQT. You can access this via <https://tmate.de/login>. With your access data you can download all past measurements as often as you like. The output as .csv files can be read out in e.g. MS Excel.

The screenshot shows the TMate Cloud measurement data portal. At the top, there is a dark header bar with the TMate Cloud logo and navigation links for 'Übersicht' (Overview), 'Kartenansicht' (Map View), and 'Verwalten' (Manage). Below the header, a search bar is labeled 'Messdatenportal'. The main area displays a table of measurement data with the following columns: Datum (Date), Gerätenummer (Device Number), Zählernummer (Meter Number), TESTMESSUNG (Test Measurement), Mandant (Client), Stationsnummer (Station Number), and Adresse (Address). There are six rows of data, each corresponding to a measurement taken on 26.01.2021 at different times between 10:25 and 10:27. At the bottom of the table, there are buttons for 'Ausgewählte Messdaten exportieren' (Export Selected Measurements) and 'Alle Messdaten exportieren' (Export All Measurements). A footer note indicates '1 bis 6 von 6' (1 to 6 of 6) and page navigation buttons.

Datum	Gerätenummer	Zählernummer	TESTMESSUNG	Mandant	Stationsnummer	Adresse
26.01.2021 10:27	11-90a3-sp	TESTMESSUNG	ENQT			
26.01.2021 10:27	11-90a3-sp	TESTMESSUNG	ENQT			
26.01.2021 10:26	11-90a3-sp	TESTMESSUNG	ENQT			
26.01.2021 10:26	11-90a3-sp	TESTMESSUNG	EN2T			
26.01.2021 10:25	11-90a3-sp	TESTMESSUNG	ENQT			
26.01.2021 10:25	11-90a3-sp	TESTMESSUNG	ENQT			

Figure 4: Measurement data on the TMate Cloud

Explanation of the measurement data

When exporting the .csv file, various data are shown, which require a more detailed explanation. The column „Value range“ is filled only if necessary.

Value of the .csv file	Meaning	Value range
ARFCN	Frequency number used	-
BAND	Band used (2G)	-
BSIC	Base Station Identity Code (2G)	-
Cell_ID	Cell ID / base station number	-
Client*	Assigned customer account	-
device_id	Hardware serial number of the device	-
DRX	Discontinous Reception	-
EC/NO	RSCP/ RSSI	-

*Only available with TMate.de portal access.

frequency	Approved frequency bands for the test (can be restricted on the device)	-
LAC	Location Area Code / Base Station Area	-
lte_sinr	Signal to Interference & Signal to Noise Ratio	-
MCC	Country code	-
measurement_date	Date and time of the measurement	-
Meter_id	Meter number entered on the device	-
MNC	Calculated position of the base station (lat)	-
network_bts_location_lat*	Calculated position of the base station (long)	-
network_bts_location_long*	Error codes	-
network_error	Technology used	-
network_technology	Network operator name	LTE/UMTS/GSM

*Only available with TMate.de portal access.

Operator	Network operator name	Ex. Telekom, Telefonica & Vodafone
PCI	Physical Cell Identifier	-
ping_avg*	Average package runtime	-
ping_max*	Maximum package runtime	-
ping_min*	Minimum package runtime	-
Ping_packet_loss*	Packets lost during runtime measurement	Ideal 0
PSC	Synchronization code	-
RSCP	Received Signal Code Power	0 dBm to -124 dBm
RSRP	Receive level reference signal	-150 dBm to -50 dBm
RSRQ	Receive quality reference signal	-0 dBm to -20 dBm
RSSI	Signal attenuation	0 dBm to -125 dBm

*Only available with TMate.de portal access.

RXLEV	Network feedback of the terminal RSSI (can be converted to RSSI bands, larger = better reception)	-
RxQuality	Voice quality (2G) smaller=better	0 - 7
speed_download*	Download speed (bit/s)	Ideal: >1000000
speed_upload*	Upload speed (bit/s)	Ideal: >1000000
station_id*	Station number	-
TA	Terminal adapter	-
TAC	Tracking area code	-
URA	UTRAN registration area	-
wcdma_ecio	UMTS signal quality	0 to -20

*Only available with TMate.de portal access.

Broken down value ranges

The color coding corresponds to the visualization of the meter.

GSM (dBm)	LTE RSRP (dBm)
Bis -70	Bis -84
-70 bis -85	-85 bis -102
-86 bis -100	-103 bis -111
Ab -100	Ab -111

- **Gute Signalstärke** - Im grünen Wertebereich ist ein problemloser Einbau möglich.
- **Riskante Signalstärke** - Ab einem gelben und orangen Messwert ist mit Verbindungsabbrüchen zu rechnen.
- **Keine ausreichende Signalstärke** - Im roten Bereich ist von regelmäßigen Verbindungsabbrüchen oder keiner Verbindung auszugehen.

FAQ

Which antennas can be used with the network tester?

All antennas with SMA connection can be connected. Further antennas can be connected via corresponding adapters (e.g. SMA to FAKRA).

Which antenna connector must be used if the antenna has only one connector?

The right antenna connector, this is for the main antenna.

Why can't I connect with a station antenna, but I can with the supplied antenna?

Please check the SMA connector of the antenna. If the antenna connector does not have a central pin, an adapter from Fe-male-SMA to Male-SMA must be used (optionally available).

I get good attenuation values in the green range, why can't I connect anyway?

Possible causes:

- The signal is disturbed, i.e. other participants are still transmitting on the same frequency.
- The cellular base station is overloaded.
- The mobile phone base station is currently disturbed.
- There is a general network malfunction (Internet outage).

Please check with your contact at the respective network operator for further information about network disturbances and current maintenance work.

Which LTE bands are measured in?

The device supports all currently used LTE bands. The exact information about the band used can be found in the .csv file from the measurement data portal. If desired, you can configure the device so that only certain bands are measured.

How can the measurement data be retrieved?

Currently, retrieval is only possible via the measurement data portal. With the NT LTE, LTE+ and LTEmax, the measurement data can be exported via WLAN to a desired device as a .csv file.

Are there video tutorials on how to use the meters?

Yes! On our homepage you will find many explanatory videos on the operation of our measuring instruments.

Country codes

Source: https://de.wikipedia.org/wiki/Mobile_Country_Code

2 – Europe

ID	Country				
202	Greece	235	United Kingdom	278	Malta
204	Netherlands	238	Denmark	280	Cyprus
206	Belgium	240	Sweden	282	Georgia
208	France	242	Norway	283	Armenia
212	Monaco	244	Finland	284	Bulgaria
213	Andorra	246	Lithuania	286	Turkey
214	Spain	247	Latvia	288	Faroe Islands
216	Hungary	248	Estonia	290	Greenland
218	Bosnia and Herzegovina	250	Russia	292	San Marino
219	Croatia	255	Ukraine	293	Slovenia
220	Serbia	257	Belarus	294	Macedonia
221	Kosovo	259	Moldova	295	Liechtenstein
222	Italy	260	Poland	297	Montenegro
225	Vatican City	262	Germany		
226	Romania	266	Gibraltar		
228	Switzerland	268	Portugal		
230	Czech Republic	270	Luxembourg		
231	Slovakia	272	Ireland		
232	Austria	274	Iceland		

3 – North America / Caribbean

This grouping is not congruent with the participants in the North American Numbering Plan.

ID	Country		
302	Canada	350	Bermuda
308	Saint-Pierre und Miquelon	352	Grenada
310	USA	354	Montserrat
311	USA	356	St. Kitts and Nevis
312	USA	358	St. Lucia
312	USA	360	St. Vincent and the Grenadines
314	USA	362	Netherlands Antilles
315	USA	363	Aruba
316	USA	364	Bahamas
330	Puerto Rico	365	Anguilla
332	American Virgin Islands	366	Dominica
334	Mexico	368	Cuba
338	Jamaica	370	Dominican republic
340	Guadeloupe	372	Haiti
340	Martinique	374	Trinidad and Tobago
342	Barbados	376	Turks and Caicos Islands
344	Antigua and Barbuda		
346	Cayman Islands		
348	British Virgin Islands		

4 – Asia

ID	Country
400	Azerbaijan
401	Kazakhstan
402	Bhutan
404	India
405	India
410	Pakistan
412	Afghanistan
413	Sri Lanka
414	Myanmar
415	Lebanon
416	Jordan
417	Syria
418	Iraq
419	Kuwait
420	Saudi Arabia
421	Yemen
422	Oman
424	United Arab Emirates
425	Israel
426	Bahrain
427	Qatar

428	Mongolia	5 – Oceania		548	Cook Islands
429	Nepal	ID	Country	549	Samoa
430	United Arab Emirates	502	Malaysia	550	Federated States of Micronesia
431	United Arab Emirates	505	Australia	551	Marshall Islands
432	Iran	510	Indonesia	552	Palau
434	Uzbekistan	514	East Timor	6 – Africa	
436	Tajikistan	515	Philippines	ID	Country
437	Kyrgyzstan	520	Thailand	602	Egypt
438	Turkmenistan	525	Singapore	603	Algeria
440	Japan	528	Brunei	604	Morocco
441	Japan	530	New Zealand	605	Tunisia
450	South Korea	534	Northern Mariana Islands	606	Libya
452	Vietnam	535	Guam	607	Gambia
454	Hong Kong	536	Nauru	608	Senegal
455	Macao	537	Papua-Neuguinea	609	Mauritania
456	Kambodscha	539	Tonga	610	Mali
457	Laos	540	Salomons	611	Guinea
460	China	541	Vanuatu	612	Ivory Coast
461	China	542	Fiji	613	Burkina Faso
466	Taiwan	543	Wallis andFutuna	614	Niger
467	North Korea	544	American Samoa	615	Togo
470	Bangladesch	545	Kiribati		
472	Maldives	546	New Caledonia		
		547	French Polynesia		

616	Benin	640	Tanzania	710	Nicaragua
617	Mauritius	641	Uganda	712	Costa Rica
618	Liberia	642	Burundi	714	Panama
619	Sierra Leone	643	Mozambique	716	Peru
620	Ghana	645	Zambia	722	Argentina
621	Nigeria	646	Madagascar	724	Brazil
622	Tschad	647	Réunion	730	Chile
623	Central African Republic	648	Zimbabwe	732	Colombia
624	Cameroon	649	Namibia	734	Venezuela
625	Kap Verde	650	Malawi	736	Bolivia
626	São Tomé and Príncipe	651	Lesotho	738	Guyana
627	Equatorial Guinea	652	Botswana	740	Ecuador
628	Gabun	653	Swaziland	742	French Guiana
629	Republic of the Congo	654	Comoros	744	Paraguay
630	Democratic Republic of Congo	655	South Africa	746	Suriname
631	Angola	657	Eritrea	748	Uruguay
632	Guinea-Bissau				
633	Seychelles				
634	Sudan				
635	Ruanda	ID	Country	ID	Country
636	Ethiopia	702	Belize	001	Test networks
637	Somalia	704	Guatemala	901	Worldwide
638	Djibouti	706	El Salvador		
639	Kenya	708	Honduras		

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Open Source Software

The device uses open source software, on request you will receive a corresponding license list and source code.

Disposal

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Document versions

Name	Date	Reason for change	Version
M. Richter	20181107	Initial fabrication	0.1.0
M. Richter	20181122	Adjustments & corrections	0.2.0
C. Niemöller	09.06.2020	Adaptations to current software	1.0
M. Block	27.10.2020	Name adjustment	1.1
M. Block	14.12.2020	Customization of the product variants	1.2
T. Bergs	01.02.2021	Delimitation of the product variants	1.3

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