

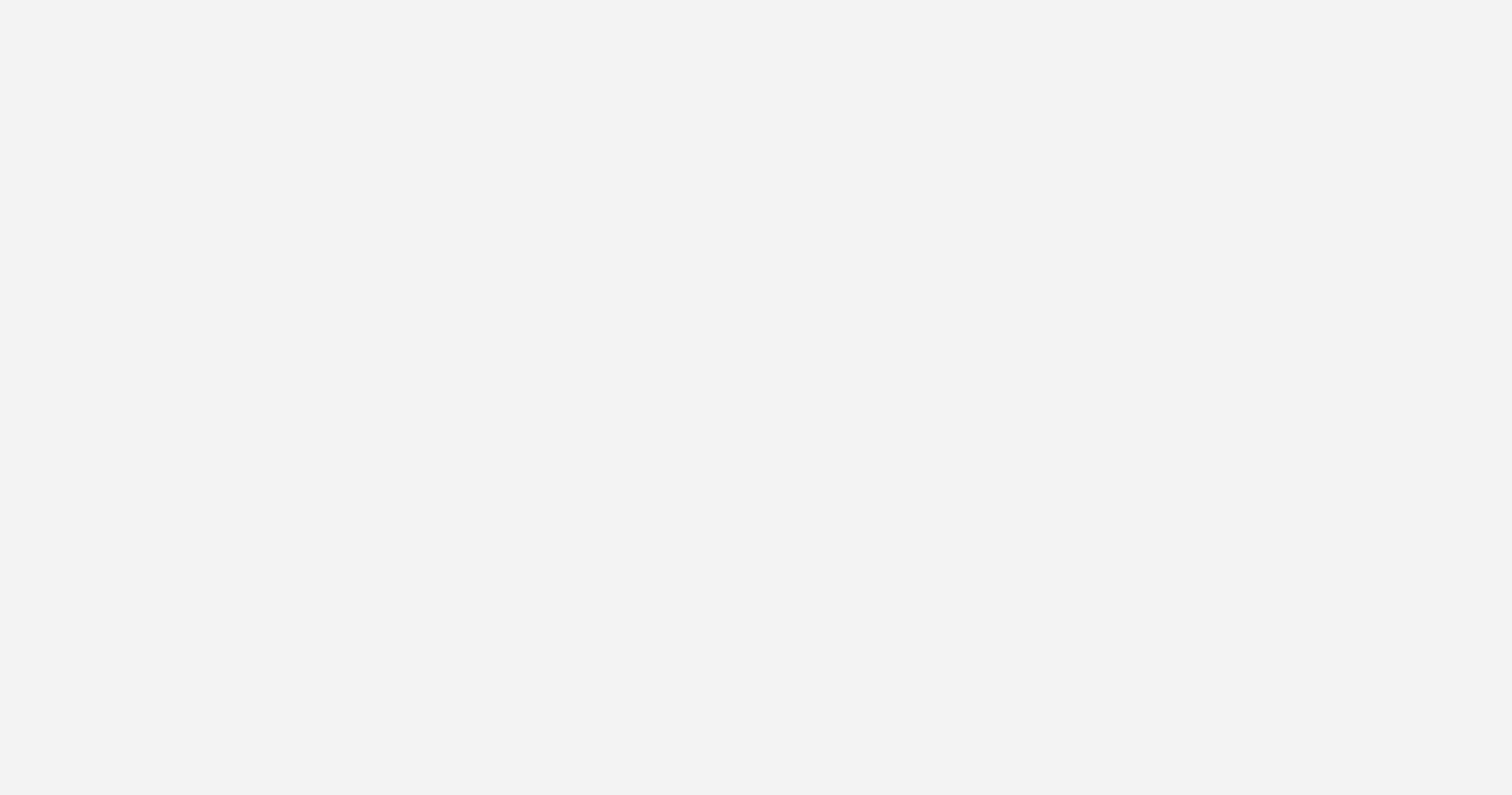


# TEST SYSTEM FOR GSM-R TERMINALS NETSI.1

HIGHLIGHTS AND TECHNICAL INFORMATION

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Funkwerk has designed the **NETSi.1** (GSM-R Network Simulator) as a tool for maintenance, testing and commissioning of GSM-R terminals. By simulating any GSM-R network, terminals can be tested end-to-end without requiring or manipulating a real GSM-R network. Thus, for example, tests of the emergency call functions are easily possible.

Operation uses a 7" touch screen and is possible in several languages. A built-in battery allows the unit to operate self-sufficiently for at least 2 hours. The successful test is documented in a protocol, which can be exported.

The **NETSi.1** can be activated via a remote control connection from ETK train radio test equipment\* and thus tests can be carried out centrally on multi-mode train radio systems.

\* Functions under development

# FUNCTIONS

- ▶ GSM-R test
- ▶ PtP calls of different priority; functional registration
- ▶ Group calls of different priority including REC
- ▶ Collective calls of different priority
- ▶ Data calls CSD/PSD\*
- ▶ SMS
- ▶ Script-controlled processing of predefined sequences\*
- ▶ Automated protocol generation
- ▶ Languages: German and English

# TECHNICAL DATA

## DIMENSIONS & WEIGHT

HEIGHT	188.75 mm
WIDTH	250.36 mm
DEPTH	184.4 mm
WEIGHT	5.1 kg (with bag and accessories)

## DISPLAY

DESIGN	7" colour display with touch function
RESOLUTION	1024 x 600 pixels

## ENVIRONMENTAL AND CLIMATIC CONDITIONS

PROTECTION CLASS	IP20 according to DIN EN 60529
OPERATING TEMPERATURE RANGE	+15 °C to +35 °C
STORAGE TEMPERATURE	-20 °C to +50 °C
MAXIMAL GRADIENT	± 1 °C/min of ambient temperature
MAXIMAL HUMIDITY	75 % in annual average
RELATIVE HUMIDITY	95 % max. 30 days per year
ALTITUDE AND PRESSURE FLUCTUATION	-100 m to 1800 m above sea level

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## ELECTRICAL PROPERTIES

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POWER SUPPLY	19 V DC (via supplied external power supply unit connection to 100 V to 250 V AC)
CURRENT CONSUMPTION	max. 3350 mA
POWER CONSUMPTION	63 W
BATTERY	3500 mAh / 14.4 V
FREQUENCY RANGE GSM-R	876 MHz to 915 MHz 921 MHz to 960 MHz

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## INTERFACES

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SERIAL INTERFACE	9-pin D-Sub female connector (RS232) as remote control interface
ETHERNET (1000BASE-T)	RJ45 female connector as remote control and service interface
RF CONNECTION	N-female
USB	USB 2.0 / USB 3.0 is used for downloading files and software updates
AUDIO OUTPUT	3.5 mm jack plug socket

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## USER INTERFACE

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DAY / NIGHT DESIGN
USER LANGUAGE (GERMAN / ENGLISH)

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## SCOPE OF DELIVERY

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1 X NETSL1 (GSM-R NETWORK SIMULATOR)
1 X CONNECTION TEST DEVICE
1 X 230 V NETWORK ADAPTER
1 X CARRIER BAG

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