

Test system for GSM-R terminals

NETSI.1



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.

GSM-R NETWORK SIMULATOR

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.

The following functions are supported by the NETSi.1:

- » 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

^{*} Functions under development



TECHNICAL DATA

DIMENSIONS/WEIGHT				
Wide	250.36 mm			
Height	188.75 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 Pixel			
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 % on max. 30 days per year			
Altitude and pressure fluctuati	on -100 m to 1800 m above sea level			
ELECTRICAL PROPERTIE	ES .			
Power supply	19 V DC (via supplied external power supply unit connection to 100 V to 250 V AC)			
Current consumption	max. 3350 mA			

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TECHNICAL DATA

ELE	CTRI	CAL	PRO	PERT	IES

Power consumption	63 W
Battery	3500 mAh / 14.4 V
Frequency range GSM-R	876 MHz to 915 MHz 921 MHz to 960 MHz

INTERFACES

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

USER INTERFACE

Day / night design

User language (German / English)

SCOPE OF DELIVERY

1 x NETSi.1 (GSM-R Network Simulator)

1 x Connection test device

1 x 230 V Network adapter

1 x Carrier bag

