





















# Specifications

Device data		
<b>Performance data</b>		
Frequency range	RF radio simulation	20 MHz to 400 MHz
	VHF/UHF DF antenna simulation	20 MHz to 1300 MHz
Impedance		50 Ω
VHF/UHF DF antenna simulation		simulates R&S®ADD153SR DF antenna
Bearing accuracy		1° RMS
Inputs/outputs		
Inputs/outputs for radios		for three radio networks with two RF inputs and outputs each, half-duplex transmission, for A3E, J3E, F3E and frequency-hopping transmitters (100 hops/s to 2000 hops/s), input level -20 dBm to +20 dBm
Inputs for VHF/UHF DF antenna simulation		RF inputs for eight angles of incidence (15/21/28/35/45/75/105/195°), input level 0 dBm nominal
Input for external RF interference signal		one external signal, can be distributed to three radio networks, input level -30 dBm nominal
Input for external antenna		one antenna input, input level -110 dBm to -20 dBm
Radio network inputs		for three radio networks, six radios (max. +20 dBm)
RF outputs for monitoring receivers		five channels for radio network scenario, and four channels for radio network scenario plus one superimposed antenna signal
Outputs to direction finder		six signals from radios, plus three external RF interference signals (one from each radio network)
Outputs for external RF interference signal		three channels
Radio network outputs		six channels with sum signal of the three radio networks, plus three channels with one radio network signal each
Control interface		USB, LAN (1000BaseT) for remote control
<b>General data</b>		
Temperature ranges	operating temperature range	+5°C to +40°C, in line with EN 60068-2-1, EN 60068-2-2
	storage temperature range	-40°C to +70°C
Humidity		max. 95%, cyclic test at +25/+40°C, in line with EN 60068-2-78
Shock		40 g/11 ms in line with EN 60068-2-27
Vibration	sinusoidal	5 Hz to 55 Hz, 0.15 mm 55 Hz to 150 Hz, 0.5 g in line with EN 60068-2-6
	random	10 Hz to 300 Hz, 3 mg <sup>2</sup> /Hz in line with EN 60068-2-64
Electromagnetic compatibility		in line with EN 61326, EN 55011, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11
MTBF		12 000 h (SN 29500)
Power supply		100 V to 120 V AC/200 V to 240 V AC, 50 Hz to 60 Hz, 170 VA
Dimensions	W × H × D	534 mm × 625 mm × 585 mm (21.02 in × 24.61 in × 23.03 in)
	depth with front and rear covers	710 mm (27.95 in)
Weight		approx. 65 kg (approx. 143.30 lb)

# Ordering information

Designation	Type	Order No.
<b>Base unit</b>		
Radio Net Simulation Device	R&S®GTA-RN5	3042.0008.02
(including accessories supplied such as power cable and manual)		

## Service you can rely on

- | Worldwide
- | Local and personalized
- | Customized and flexible
- | Uncompromising quality
- | Long-term dependability

## About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established 75 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

## Environmental commitment

- | Energy-efficient products
- | Continuous improvement in environmental sustainability
- | ISO 14001-certified environmental management system

Certified Quality System  
**ISO 9001**

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