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Data Sheet



# GTEM Bundles

Raditeq GTEM Systems

Bundles - RGT0250A - RGT0500A - RGT1000A

Easy setup

Compliant

Turnkey





# Raditeq's GTEM Bundles

## Turnkey GTEM RI/RE Testing

Easy setup Compliant Turnkey

Designing EMC test systems often proves to be a challenge. Therefore, Raditeq has put together several EMC test bundles, aimed at specific and standardized EMC tests. This enables you to perform EMC tests using a turnkey solution at an affordable price.

**Experience** | Raditeq founded in 1992 and located at Woerden in the center of the Netherlands, has all the experience needed to design and build specific EMC test bundles and guarantee the overall EMC system performance required by the EMC standards. Raditeq has most of the components for each bundle in its own portfolio, ranging from the RadiMation automated EMC test software to the RadiCentre modular test system with all available EMC test and measurement plug-in cards.

**Guaranteed performance** | As Raditeq bundles have been supplied to many customers, Raditeq can fully guarantee the performance of any bundle to deliver the required and full compliance performance.

**Different ranges & test levels** | There is a selection of pre-configured Raditeq GTEM bundles available to enable radiated immunity testing of EUT's with different dimensions. Each bundle covers a wide frequency range from 80 MHz to 6 GHz matching several EMC standards, like the IEC61000-4-3 and ISO11452-2.

**Option emission measurement** | Each GTEM bundle can be optionally expanded for radiated emission testing by adding a spectrum analyser or EMI receiver. The bundle includes a coaxial switch enabling automated switching between radiated emission and radiated immunity testing. The RadiMation Pro software allows emission measurements of the EUT in three orientations (X,Y,Z) and perform an OATS correlation calculation.

**Maintenance & Warranty** | Raditeq offers a three-year warranty on its own system components and a minimum of two years warranty on parts from other parties. However, each installation needs maintenance. Once a bundle is delivered and fully operational, Raditeq can offer a full maintenance package on the complete installation, including calibration to ensure quality and full system availability.

**Training** | The system may be perfect, but in the end the results mainly depend on the people who are working with it. Experienced employees of Raditeq can train your staff how to use the hardware and RadiMation EMC software. Apart from this we can realize specialized trainings starting from CE-marking (Europe) to in depth EMC test & measurement techniques, including EMC troubleshooting. This way you ensure the EMC test system is used to its full capabilities and benefits.



# GTEM | Technical Specifications & Included Products

Technical Specifications	GTM0250A	GTM0500A	GTM1000A
Frequency range	For emissions: 9 kHz - 6 Ghz, For immunity applications: 80 MHz – 6 GHz * DC-20 GHz optional		
Septum height	250 mm	500 mm	1000 mm
Max EUT Size (LxWxH)	20 x 20x 15 cm	35 x 40 x 27 cm	75 x 75 x 50 cm
Defined test Volume	8.3 x 8.3 x 8.3 cm	18 x 18 x 18 cm	35.5 x. 33.5 x 33.5 cm
Typical VSWR (average value)	1:1.2	1:1.3 (for immunity test range)	1:1.6
Typical VSWR at critical frequency (average value)	<1:1.6	< 1:1.6 (for immunity test range)	1:1.6
Max. input power, W continuous/pulsed	1 kW/ *2,5 Kw	1 kW / 2.5 kW	1.5 kW / 2.5 kW
Input connector	7/16" and Adapter to N UG-21		
Nominal impedance	50 Ohm		
Shielding effectiveness	From 40 to 65 dB		
<b>Mechanical</b>			
Construction materials	Hot galvanized steel, Door Inox steel, Hybrid Carbon loaded polyurethane foam + ferrite		
Outer dimensions ( Lx W x H)	125 x 64 x 44 cm	238 x 122 x 83 cm + 70 cm Trolley	500 x 271 x 188 cm + 25 cm trolley
Door (W x H)	30 x 20 cm	Standard: 40 x 40 cm * Optional: 40 x6 0 cm	80 x 80 cm
Window in the door (W x H)	24 x 14 cm	Optional: circular Diam. 200 mm.	Optional: circular Diam. 200 mm.
Weight	Approx. 40 kg	Approx. 250 kg	Approx. 650 kg
Wheeled undercarriage (with brakes)	Optional	Optional	Optional
Mains connectors	Fix/CEE		
Main switch	Magnetic- Thermal 16A mono phase		
Input socket plug	16 AC IEC Type ( mono phase + ground)		
Output socket EUT tape	16 AC SHUCO type (mono phase + ground)		
Additional EUT sockets	Optional		
Ground connection	M6 bolt		
EMI AC Line filter (mono phase + ground)	16A 250V n.2 terminals +ground		
EMI AC/DC secondary filter	10A 250V AC/DC N.2 terminals		
Channel for fiber optic leads	3 couples (18 GHz Cut-off frequency)		
RF feed-through connector	N.1 N-N female		
RF feed-through SMA connectors	N.2 SMA-SMA female		
Technical panel pre-drilled for options	supplied		
<b>Additional Option</b>			
Media filter unit	*Optional: N.1 RJ45, N.1 DB9-RS232, N.2 USB-2, N.1 DC filter.		
Indoor lighting	10W LED		

Specifications are subject to change without notice



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