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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,<br>For immunity applications: 80 MHz – 6 GHz<br>* 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 *<br>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  |  |                                    |



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