

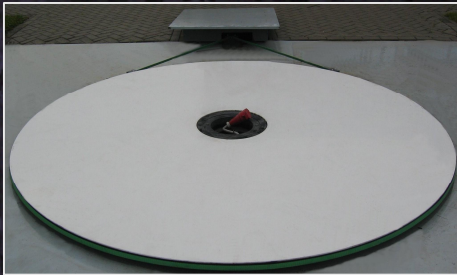
Emc Site Automation



To enable full EMC Site Automation D.A.R.E!! Development introduced a broad range of products. These products provide a complete solution to automate antenna measurements at multi height and EMC measurements at different EUT angles.

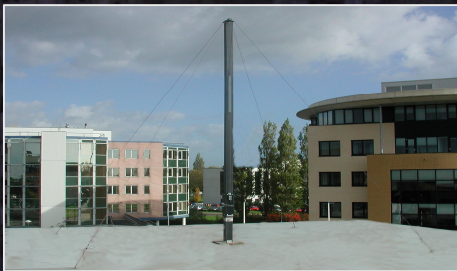
RadiControl®

RadiControl® is a universal versatile controller that provides full control over virtual any brand of antenna tower and/or turntable. Next to this the controller supports frequency inverters, potential-free contacts (up/down & on/off), 12V signals and/or a RS232 bus (standard). Optionally the controller can be equipped with an USB interface or IEEE 488 bus. The controller can be used manually or by of D.A.R.E!! Development software package RadiMation®, thus realizing fully automated EMC tests.



RadiTurn®

RadiTurn® is a low profile RF transparent surface mounted turntable. In many applications it is difficult to build-in a turntable. This is especially true for Open Area Test Sites and Anechoic chambers. Not only the space beneath the floor is limited or absent, but also the electrical connection of the turntable with the surrounding floor often leads to great disturbance problems and high maintenance costs. This is why D.A.R.E!! Development has designed a low profile RF transparent turntable. With a height of less than 80 mm and no reflective planes, this table is excellent for use in both new and existing EMC test environments. This combined with a maximum load capacity of 10.000 kg and a point load capacity of 250 kg, makes this a highly unique product.



RadiTower®

RadiTower® is a robust antenna tower for EMC use. The tower is completely RF transparent because of use off polycarbonate/PVC, and is weather proof and non hygroscopic. This is an excellent solution for use on an Open Area Test Site or antenna calibration site. The engine can be mounted next or under the tower, depending on the specific site situation. The position of the antenna is measured by means of an absolute encoder on the engine. This delivers a standard accuracy of approximately 10mm. For extended use of antenna calibrations, a high precision sensor can be mounted to the centre of the antenna, thus obtaining an increased height accuracy of 1 mm. A software protection is implemented that controls the upper- and lower limit, motor direction and motion detector.

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The Standard for Consultancy, (Re)design
and Training in EMC and Product Safety

DARE!!
Development

Technical Specifications

RadiControl® Universal Controller

Performance	
Control	: Manual and/or software controllable
Range	: 1 – 6 m (tower), 360 degrees (turntable)
Accuracy	: ± 1 mm (tower), ± 1 degree (turntable)
PC interface	: RS232 (standard). Optional USB or IEEE 488 interface
Inputs	: Upper- and Lower limit, emergency shutdown, absolute encodes, and four (4) general purpose inputs
Outputs	: Four (4) general purpose outputs

Environmental conditions	
Temperature range	: 10° C – 40° C
Relative Humidity	: 10% – 90% (non-condensing)

Dimensions & Connectors	
Dimensions	: 19" rack mountable, height 2U, 300 mm depth
Connectors	: RS232 (standard). Optional USB or IEEE 488

Power	
Supply Voltage	: 230 VAC
Power consumption	: 15 W

RadiTurn® Transparant low profile Turntable

Performance	
Diameter	: Between 1 m – 4 m
Height	: 75 mm on top of surface
Maximum load	: 10.000 kg
Maximum point load	: 250 kg
EMC performance	: Transparant
Engine control	: 1 kW electromotor
Rotation speed	: 30 seconds for 360° (HW preset speed)
Angle data	: 0° - 360° with 1° resolution

RadiTower® Robust EMC antenna tower

Performance	
Height	: 5,5 m or 7,5 m
EMC performance	: Transparant
Engine control	: 1 kW electromotor
Heigth data	: 1 – 4m with selectable resolution (1cm or 1mm)

More information

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