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Data Sheet

Pro Series

RadiCentre® 8

8-Slot Modular Test System

Models - CTR2008A

Flexible | High Speed | Extensible

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RadiCentre® 8

Modular Multifunctional Test System

Flexible | High Speed | Extensible

The CTR2008A is the latest addition to the RadiCentre® modular test systems. This new system rack is intended for applications where high speed data transfer is required and supports up to 8 instruments in one rack.

Like previous test systems, this latest model supports all available instruments from Raditeq, including: signal generators, power meters, coaxial switch cards and E-field probes. When configured with eight RadiSense laser-powered E-field probes, the CTR2008A is ideal for high speed chamber calibrations and radiated immunity testing.

Typical applications | The international standard ISO11451-5: "vehicle test methods for reverberation rooms", defines the measurement and calibration of E-fields at eight reference points in the reverberation room. The new RadiCentre® model CTR2008A is ideally suited to perform these measurements with the highest speed and accuracy.

The EN-IEC61000-4-3 standard requires a 16 point calibration to verify the field homogeneity in the anechoic chamber. When using one or even two CTR2008A modular system racks, each equipped with 8 E-field probes, these tests can be performed in a split second!

Fast measurements | The RadiCentre® model CTR2008A is equipped with a 1 Gigabit Ethernet interface. Each instrument installed in one of the eight slots has its own assigned IP address. This allows for direct communication with each individual device thus enabling fast data throughput and easy installation.

Laser safety | When the RadiCentre® is equiped with a LASER power supply plugin card(s) safety of the engineer is very important. The 'ON' and 'OFF' button on the front of the RadiCentre® 8 is there to ensure the operator's safety and to prevent accidental activation of the laser power supplies in the RadiCentre®, the model CTR2008A is equipped with a laser ON/OFF button that must be pressed for a specified amount of time to activate the laser. During the activation process, an audible signal is generated to inform the user that the laser(s) are being turned ON. If the start button is pressed too short or too long, the laser will not start.

Closed loop interlock system | An interlock plug located at the rear of the RadiCentre can be utilized to deactivate all laser supply cards within the RadiCentre, in the event that the external interlock loop becomes disconnected.

Flexible | Each of the eight slots can be configured with different plug-in cards according to the user's choice. The RadiCentre® systems can be configured with all available plug-in cards, such as:

- **RadiSense® :** LASER powered E-Field Sensors
- **RadiField® :** Integrated EMC immunity field generators
- **RadiPower® :** RF power meters for EMC applications
- **RadiGen® :** RF signal generators
- **RadiSwitch® :** RF coaxial switch cards
- **RadiLink® :** Analogue, fibre coupled, optical links

Space saving | In general; controllers, probes, switches and other instruments each occupy one or more slots in a 19-inch cabinet. The RadiCentre® system is efficient in its use of space, allowing up to eight instruments in just three height units (3HU). With the mounting kit supplied as standard, the RadiCentre® can be mounted in a 19-inch rack.

Software support | Using our RadiMation EMC software, all eight instruments in the RadiCentre® model CTR2008A can be controlled via the 1 Gigabit Ethernet interface. In addition, the RadiCentre® system can also be controlled by other software using the command codes as defined in the product manuals.

RadiCentre® Technical Specifications

Performance	RadiCentre® Pro CTR2008A
Number of slots in plug-in cards	8
Backplane	Intelligent versatile backplane
Model	Desktop or 19” rack mountable
Dimensions	
Height	132 mm (3U)
Depth	312 mm excluding rear panel
Widht	19” (rack mountable)
Weight	Approx. 7 kg (empty)
Environmental conditions	
Temperature range	10 °C - 40 °C
Relative humidity	5% - 95% (non-condensing)
Power consumption	
Supply voltage	115 VAC / 230 VAC
Power consumption, standby	< 3 W
Power consumption, empty	33 W
Power consumption, maximum load	225 W
Interfaces & cables	
Interface	1 Gbit LAN
Connectors	6,35mm jack plug (Interlock) ,RJ45 ,C14 IEC C14 – female
Saftey	
Interlock	6,35mm jack plug connection to safty system disables Interlock & Interlocked laser outputs when triggered.
Plug-in cards*	
RadiSense	The LASER powered range of E-Field Sensors
RadiLink	The analogue optic fibre link to 6 GHz
RadiField	Integrated EMC Immunity Test Solution 1 to 18 GHz
RadiPower	The range of power meters up to 18 GHz for EMC applications
RadiGen	The range of RF signal generators up to 6 GHz for EMC applications
RadiSwitch	To switch one, two, four or six RF signals up to 67 GHz
Safety	
Warranty (1)	3 Years

1) Standard one year of warranty is given on Raditeq equipment. After you register your new Raditeq product two (2) years of warranty will be added for free resulting in three (3) years of warranty. Registration can be done at: www.raditeq.com

*) Sold separately

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