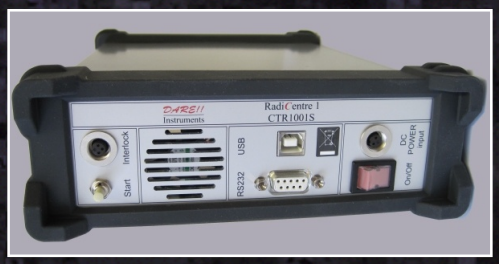
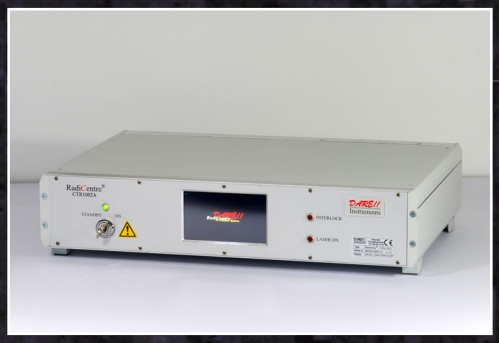
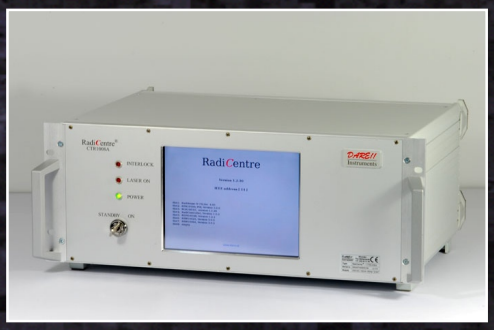
RadiCentre®







The Heart of each EMC Test System

Flexible • Versatile • Extensible

EMC test systems can vary from simple systems with one or two instruments to complex installations with many measurement instruments connected, while in many cases even a turntable and an antenna mast should be controlled. In order to enable full automated testing, these devices and measuring instruments, as well as the connections made between amplifiers, power meters, antennas and measurement receivers, should be controlled in an automated manner. Where Radi*M*ation® acts as the software centre of the system; the Radi*C*entre® systems are the core of the hardware. With the introduction of the Radi*C*entre®, cost effective, full automated testing finally becomes a reality.

Flexible

To enable full automated testing the RadiCentre® provides one, two or eight versatile slots. Each slot can be configured at the user's choice. The different available plug-in cards can be combined as desired, allowing any combination of functionality.

Extensible

The Radi*C*entre® is expandable with many different plug-in cards.

- Radi*S*ense® the range of battery free E-Field Sensors
- Radi*L*ink® the analogue fibre optic link till 3 GHz
- Radi*M*ate® the four channel AD/DA monitor
- Radi*P*ower® the range of RF power meter for EMC applications
- Radi*G*en® the RF signal generator for EMC applications
- Radi*S*witch® to switch two, four or six 18 GHz / 150 W channels
- RadiControl® Antenna Tower and Turntable controller

Space effective

Where in general controllers, probes, switches and other equipment take one or more units in a 19-inch cabinet, the RadiCentre® systems allow for combining two to eight devices in just two to four units height. The RadiCentre® is available in both a desktop and 19-inch rack mountable version with either one, two or eight free plug-in card slots.

Easy to use

The system is "Plug and Play", which means that every board is automatically recognized and initialized and ready for use. The user can configure and control the system by means of a clear and easy to use a TFT touch screen (2 & 8 slots).

Software support

The RadiCentre® is software controllable with RS-232, LAN and IEEE-488 (Optional for the 2-slot system). Besides the RadiMation® integral EMC measurement software, the system can be controlled by all EMC measurement packages, as all software codes to control the unit are available.

Linux Based & Software upgrades

The system is Linux based thus offering great stability and fast start-up times. As all embedded software is stored in flash, it is very easy to upgrade the system with new versions, thus protecting the initial investment.

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

DARE!! Instruments

Technical Specifications

RadiCentre® Modular EMC Test Systems

Performance	CTR1001S	CTR1002A	CTR1008A
Slots for Plug-in Cards	1 free configurable slot	2 free configurable slots	8 free configurable slots
Display (TFT touch screen)	NA	4,3" Widescreen (480x272)	8,4" SVGA (800 x 600)
Backplane		Intelligent versatile backplane	
Processor		400 MHz 32 bits AMD Alchemy® MIPS processor	
Memory		64 MB RAM, 32 MB Flash	
Operating System		Linux	
Model	Desktop	Desktop or 19" rack mountable	

Dimensions			
Height	50 mm (1U)	2U	4U
Depth	254 mm	350 mm	350 mm
Width	180 mm	19" (rack mountable)	19" (rack mountable)
Weight	1,4 kg	Appr. 4,5 kg (empty)	Appr. 9 kg (empty)

Environmental conditions	
Temperature range	10^0 C - 40^0 C
Relative humidity	10% – 90% (non-condensing)

Power consumption			
Supply voltage	12 VDC	230 VAC	230 VAC
Power consumption, empty	NA	35 W	50 W
Power consumption, maximum load	24 W	60 W	180 W

Interfaces & cables			
Interface	RS232 & USB1.1	RS-232 and LAN (IEEE-488 optional)	RS-232, LAN and IEEE-488
Connectors	DC-Power, Sub D-9, USB-B	IEC Inlet, Sub D-9, Interlock (IEEE-488)	IEC Inlet, Sub D-9, IEEE-488 and Interlock
Cables	RS-232 cable, AC/DC Adapter	RS-232 cable, IEC power cord	

Safety	
Interlock	External Interlock & Interlocked LASER outputs

Warranty	
Warranty	3 years (misuse excluded)

Plug-in cards	
Radi*S*ense®	the LASER powered range of EM Field Sensors (4, 6 and 18 GHz)
Radi*L*ink®	the analogue optic fibre link to 3 GHz
Radi*M*ate®	the four channel AD/DA monitor
Radi*P*ower®	the range of power meters for EMC applications
Radi*G*en®	the range of RF signal generators for EMC applications
Radi*S*witch®	to switch two, four or six 18 GHz / 150 W channels
RadiControl®	Antenna Tower and Turntable controller

More information
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