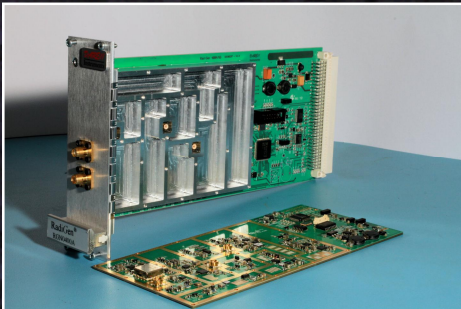
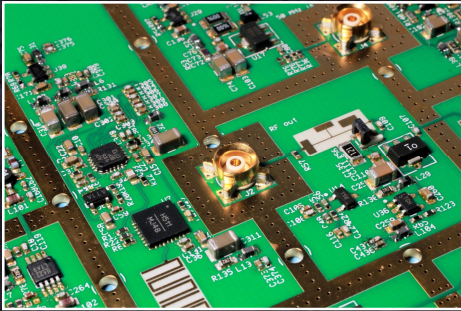


RadiGen®



Dijkstra Advice, Research & EMC Instruments B.V.
Vijzelmolenlaan 7 – NL-3447 GX Woerden
The Netherlands
Tel: +31 (0) 348 41 65 92
Fax: +31 (0) 348 49 97 32
Internet: www.dare.nl
E-mail: instruments@dare.nl

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

DARE!!
Instruments

The affordable EMC RF Signal Generator Flexible • Accurate • Extensible

An important part of an EMC immunity test system is the RF signal generator. It produces the carrier signal with or without modulation at a certain frequency and with a certain signal level. Most signal generators are multi-purpose and hence complex and expensive. The latest expansion of the range of EMC measurement products from D.A.R.E!! Instruments is the RadiGen® range of affordable EMC RF signal generators.

Flexible

The RadiGen®-400M RF signal generator covers a frequency range of 9 kHz up to 400 MHz and is aimed at conducted immunity set-ups, like the IEC61000-4-6 or the ISO11451-4 (BCI). The RadiGen®-6 covers a frequency range from 9 kHz up to 6 GHz and can therefore be used for radiated immunity test applications as well. Both generators provide CW signals and AM/Pulse modulated signals, using an internal modulator.

Accurate and pure signal

The RadiGen®-400M and RadiGen®-6 are accurate RF signal generators with a frequency error of less than 100 ppm and a modulation accuracy better than 2 %. These figures make it the perfect device for EMC immunity testing. Another advantage of the RadiGen® signal generators is that they provide a pure RF signal without any glitches when changing signal levels and/or carrier frequency.

Extensible

The RadiGen®-400M and RadiGen®-6 generators are delivered as a plug-in card designed to fit in the multifunctional RadiCentre® modular system, which is available as a one, two or eight slot unit. Such a system can contain a RadiGen® RF signal generator and one or more RadiSense® E-field probes, RadiSwitch® coax switch cards and RadiPower® RF power meters. Of course it is possible to build even larger systems by combining any number of RadiCentre® systems.

Easy to use

The system is “Plug and Play”, which means that every plug-in card is automatically recognised and initialised by the RadiCentre® and immediately ready to use. The user can configure and control the system using external PC software or through the TFT touch screen (only on 2- and 8-slot RadiCentre®). The possibility to control the RadiGen® RF signal generators from the touch screen as well as remote by software, makes it the perfect generator for EMC test and measurement laboratories.

Software support

The RadiGen®-400M and RadiGen®-6 are software controllable with RS-232 and IEEE-488. Besides the RadiMation® integral EMC measurement software the system can be controlled by other EMC measurement software packages using the RadiGen® software command codes.

Linux Based & Software upgrades

The RadiCentre® system is Linux based and as such offering great stability and fast start-up times. Because all embedded software is stored in flash memory it is very easy to upgrade the system with new software versions. This protects the initial investment.

Technical Specifications

RadiGen[®]400M & RadiGen[®]6		
Performance	RGN0400A	RGN6000A
Frequency Band	: 9 kHz – 400 MHz	9 kHz – 6 GHz
Frequency Resolution	: 1 Hz	10 Hz
Frequency error	: +/- 100 ppm	
Minimum output level	: -100 dBm	
Maximum output level	: +13 dBm	
Amplitude resolution	: 0,1 dBm	
Amplitude accuracy	: +/- 1 dB	
Maximum phase noise	: -115 dBc/Hz @ 100 kHz	-85 dBc/Hz @ 100 KHz

Modulation	
Modulation types	: AM and Pulse
Modulation frequency band	: 1 Hz – 100 kHz
AM modulation depth	: 1% - 99%
AM accuracy (between upper/lower sideband level)	: < 2%
Min. – Max. pulse on/off time	: 200 ns - 10 s
On/Off ratio	: > 60 dB

Dimensions	
Height	: 100 mm (3 U)
Depth	: 220 mm
Width	: Takes up one free slot in a RadiCentre [®]

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

Power consumption		
Supply voltage	: 12 VDC	
Power consumption	: < 10 W	< 20 W

Connectors	
Output RGN0400A	: SMA
Output RGN6000A	: 2x SMA (9 kHz to 400 MHz, 1 MHz to 6 GHz)

Warranty	
Warranty	: 3 years

More information

For more information contact:

D.A.R.E!! Instruments at:

+31 (0)348 41 65 92 or instruments@dare.nl

Internet: www.dare.nl

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Dijkstra Advice, Research & EMC Instruments B.V.
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