

RadiMate®

The unique AD / DA Converter for use during EMC Measurements

The RadiMate® is a four channel high performance A/D and D/A converter. It is especially designed for use in EMC measurements where high test levels are applied to equipment under test. For communication to the automation equipment it uses a duplex optical connection. The serial to optical interface requires no external supply.

High input impedance

The extreme high input impedances of the input channels makes it possible to perform measurements on EUT without influencing the EUT.

High speed

With speeds up to 60 samples per second the RadiMate® is suited for almost all high speed EUT measurement applications.

High resolution

Its unprecedented 16 bits resolution enables very accurate measurements even at very high impedances

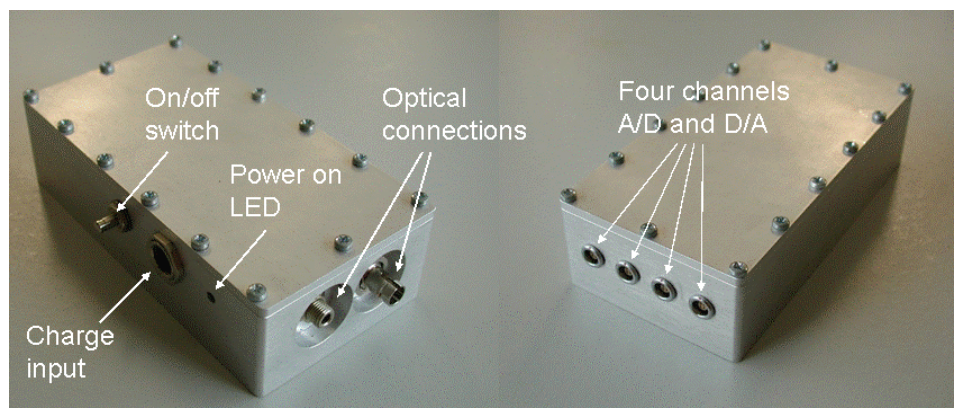
Immunity

Immune till 300 V/m the RadiMate® is suitable for all domestic, industrial and most automotive, military and aerospace EMC measurements.

Complete solution

The complete RadiMate® system contains the following items:

- The RadiMate® A/D and D/A converter
- A serial to optical interface
- 10 meter duplex fibre with FSMA and ST connectors
- Serial cable (straight, full wired)
- Battery charger
- Four test lead cables with clips
- CD with manual and software
- LASER Power Supply (optional)



Certified acc. to
DIN EN ISO 9001

Dijkstra Advies, Research & EMC Electronics
B.V.

Vijzelmolenlaan 7 – NL-3447 GX Woerden

The Netherlands

Tel: +31(0)348 48 11 44

Fax: +31 (0348) 48 06 52

Internet: www.dare.nl

E-mail: info@dare.nl

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

DARE!!

Development

Technical Specifications

RadiMate[®] 4 channel AD/DA converter

Performance

Inputs	: 4 channel differential
Input Range	: - 5 to +5 V
Input impedance	: > 100 MO (buffer off); > 1GO (buffer on)
Input resolution	: 16 bit effective
Measuring speed ¹	: 1 Ch.: 60 Smpls/s; 2 Ch.: 20 Smpls/s; 3 Ch.: 10 Smpls/s; 4 Ch.:8 Smpls/s
Outputs	: 4 channels single ended
Output range	: 0 to +5 V
Output impedance	: < 50 O
Output resolution	: 10 bit

Environmental conditions

Temperature range	: 15° to 35° Celsius
Relative humidity	: 10 – 90% (non-condensing)
Conducted immunity ²	: >300 mA; 10 kHz tot 400 MHz
Radiated immunity ²	: >300 V/m; 30 MHz tot 4 GHz
ESD immunity ²	: >16 kV

Dimensions

RadiMate	: 120 x 62 x 33 mm
Serial Interface	: 48 x 52 x 26 mm

Power

Battery	: NiMH pack, 7.2V / 150mAh or with optional LASER Power Supply
Autonomy	: 10 hour operation time
Charge time	: 2,5 hours
Supply Voltage	: 230 VAC
Power consumption	: 15 W
Serial Interface	: Powered from RS232 port

Optical Communication

Communication speed	: 38400 bps
Communication settings	: 8 bits, no parity, 1 stop bit
Data connector to RadiMate [®]	: ST
Data connector from RadiMate [®]	: FSMA
Fibres	: 200/230 µm HCS, duplex
Standard Fibre length	: 10 m

More information

For more information contact:

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

+31 (0)348 48 11 44 or info@dare.nl

Internet: www.dare.nl

Distributed by:

1) Speed may be reduced by the response time of the communication port of the PC

2) Buffer off