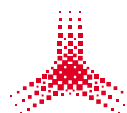


# emc

electromagnetic compatibility:

our field of action



**montena**  
montena emc sa



*Open area test site*

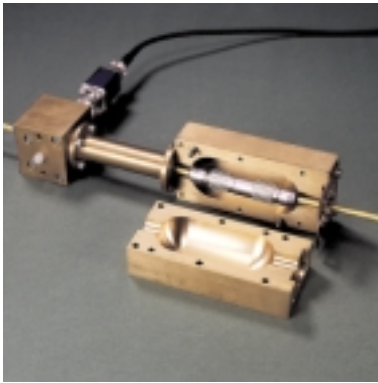


*40 GHz anechoic chamber*

We have the latest equipment, capable of measuring and simulating conducted or radiated interference over a very wide frequency range (DC up to 40 GHz). Shielded anechoic chambers are used to measure very large pieces of equipment (measurements at a distance of 10 m). An open area test site enables even the largest equipment to be tested and antennas calibrated. For systems already in place, we perform all the measurements on site. While the tests are in progress, we give you all the help necessary to improve your product. All measurements and expert reports are performed and drawn up by engineers.

#### **Sites at your disposal:**

- anechoic chambers equipped with 15.5 x 10 x 7 m ferrites for measurements up to 2 GHz. Total conformity for measurements at 10 m.  
Power supply: 4 x 400 A  
Max. load: 10 tonnes
- anechoic chamber 15 x 8 x 8.5 m for measurements up to 40 GHz
- open area test site 15 x 20 m fully equipped for measurements at 10 m with extension for measurements at 30 m.  
Power supply 4 x 400 A
- GTEM cells up to 18 GHz
- shielded chambers for component measurements
- TEM cells up to 2 GHz for field sensor calibration
- striplines for automotive tests
- site for the measurement of antenna diagrams



*Testing of connectors*



*Measurement of data processing devices*

**We offer the following services:**

- determining compliance with current and future standards with recommendations for modifications (given immediately)
- electromagnetic radiation measurements
- strong field immunity tests
- intervention to remedy system problems; on-site breakdown repair
- analysis of electric power supply quality
- environment analysis and measurement of electric and magnetic fields

**Our measurements and tests:**

- attenuation of shielding, filters and components
- RF characteristics of cables and connectors (for instance LAN's networks at 1 Gb/s)
- transfer impedance of cables and connectors
- antennas (impedance, radiation diagrams)
- insulation and resistance to electrical shocks

**We are also accredited to calibrate the following devices:**

- broadband antennas
- current sensors
- open area test sites
- anechoic chambers
- RF equipment (attenuators, cables,...)
- and others

**Consulting and engineering:**

Our advisory and engineering services are designed to suit your specific needs in every area of electromagnetic compatibility.

We place our team of specialized engineers at your service. We are able to implement your own ideas by systematically integrating electromagnetic compatibility factors into their development. It is far more judicious and economical to take these factors into account before manufacturing an equipment. Our services are also applicable to major installations and buildings.



*Measurements on site*



*Teaching sessions in your company*

**For our practical assistance services, we organize:**

- travel to the site
- effective intervention
- success of the operation to the tightest possible deadline

**These services include for example:**

- assistance with the design of equipment in compliance with standards and quality criteria
- assistance in the construction of buildings (protection against lightning, electromagnetic interference etc.)
- performance of large scale studies
- advice prior to equipment acquisition
- numerical simulation (for instance: analysis of electromagnetic fields for biological effects)
- integration of other aspects, like mechanical problems, productivity failure, etc.

**Training:**

We also organize training courses with theoretical sessions and practical seminars in your company or on our own premises. Our specialized courses deal with such subjects as standards and legislation. We give you useful information on biological effects, printed circuits, lightning etc. The effectiveness of our teaching is based largely on practical demonstrations.

**Our products:**

We propose specific equipment intended for electromagnetic compatibility measurements:

- TEM cells and striplines
- coupling and LISN's networks
- electromagnetic field sensors
- software for emission measurements and immunity tests
- calibration generators
- surge generators




*Measurement in our anechoic chamber 15,5x10x7 m (ferrites)*

To guarantee that the operation of an electrical or electronic appliance has no impact on its environment, its electromagnetic field must be perfectly controlled. On the other hand, the reliability of a product is determined by its immunity to external interference.

Our highly qualified staff - trained in the finest engineering schools - make sophisticated measurements. We not only provide this professional expertise; we also listen carefully to your needs and give you the benefit of great flexibility.

We are internationally accredited and recognized for carrying out measurements in compliance with most existing standards and also for calibration work.

For the sale of your products in the USA, our laboratory is able to supply you with the necessary documents. We are in fact one of the few companies to benefit from FCC listing. We are the only independent laboratory in Switzerland or France to possess a totally compliant anechoic chamber for measurements at 10 m.



Please contact us at any time  
for further information.

**Our aim is to provide you with  
services which effectively  
meet your needs and help  
to guarantee liability to your  
customers.**

**montena emc sa**

Zone industrielle  
CH - 1728 Rossens - Switzerland  
Phone : + 41 26 411 93 33 - Fax : + 41 26 411 93 30

**montena emc ag**

Leilab I - CH - 5300 Turgi - Switzerland  
Phone : + 41 56 299 36 36 - Fax : + 41 56 299 25 08

**montena emc ag**

EMV-Prüfstelle FSH/montena emc - Tellstrasse 2 - Postfach 664 - CH - 9001 St. Gallen - Switzerland  
Phone : + 41 71 278 41 92 - Fax : + 41 71 278 41 93

[www.montena.com](http://www.montena.com)

**W e c a n d o i t !**

