

The impulse to your progress

About montena technology

Montena is a Swiss company specialized in the generation and measurement of fast voltage, current, and electromagnetic field transients. Since 1978, Montena has designed, manufactured, and supplied systems and test equipment to assess the immunity of electrical and electronic equipment to transient High-Powered Electromagnetics (HPEM), and for many other applications. For the North American market and customers, Montena has a strong partner, HV TECHNOLOGIES, Inc. in Manassas, Virginia that is fully trained and equipped to locally support this product line from sales and applications to the final delivery, commissioning and training.

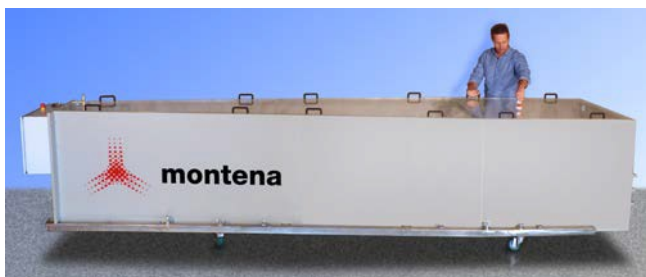
Montena generators and measurement systems are in use in more than 25 countries worldwide. The broad experience of our engineers enables us to develop tailored solutions based on a comprehensive range of standard products adapted to our customers' specific requirements. Montena is committed to delivering high-quality, reliable products compliant with the most stringent requirements.

Pulse generators

The range of our fast pulse generators starts at a few kilovolts up to several megavolts, and is based on solid state switching, relays, spark gas, Marx technology, transformers, and pulse-forming networks.



Coaxial pulse generator – 80 kV/m – rise time 1 ns



Marx generator – 2000 kV/m – rise time 2 ns

NEMP test systems

Montena is the world leader in the design and manufacture of NEMP (Nuclear Electromagnetic Pulse) and HEMP (high altitude NEMP) test systems for both radiated and conducted immunity tests according to MIL-STD-461 / RS105 and MIL-STD-188-125.

Mobile systems as well as large, fixed simulators for outdoor installations have been developed and deployed since 1998.



NEMP test system - $h = 9.1$ m, $V = 800$ kV



Mobile NEMP test system - $h = 7.2$ m, $V = 520$ kV

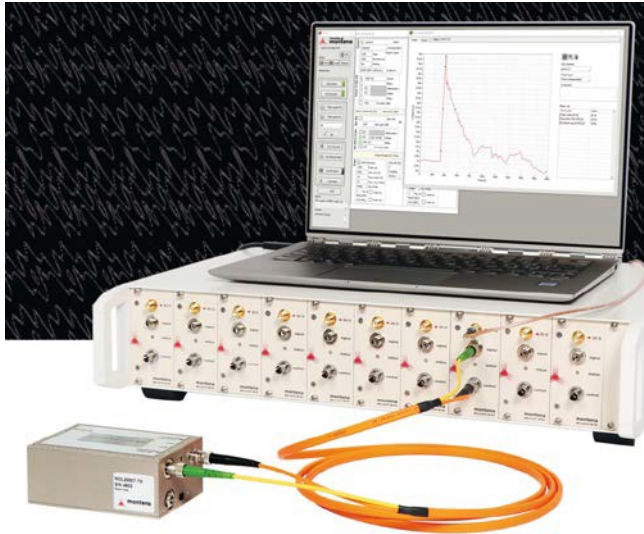


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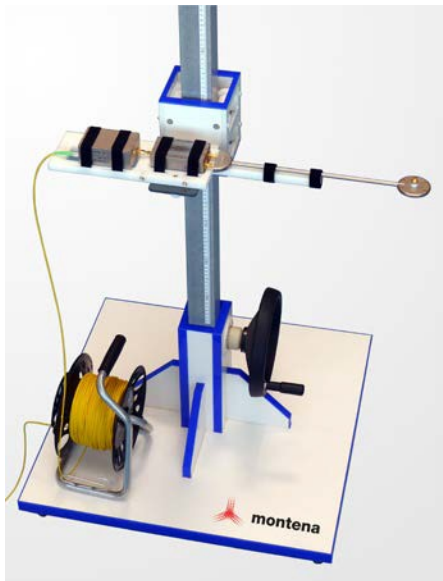
Pulse measurement equipment

Our modular optical analog transmission links (MOL2000 and MOL3000), our B-dot, D-dot and V-dot sensors, and our PULSELab software application are specially designed for the measurement of fast transients in harsh electromagnetic environments.



Montena 80Hz – 3.5 GHz analog transmission link system

We design and manufacture derivative magnetic and electric field sensors (B-dot and D-dot) for fast-pulse measurement up to 10 GHz, and accessories to complete the measurement chain such as ultra-broadband baluns, optical fiber links and passive integrators.



Free space field measurement chain with D-dot sensor

Montena has developed pulsed current injection couplers, attenuators, voltage and current sensors, connectors and adapters for fast, high-voltage and high-current transients.



Montena high-current pulsed current injection probe and attenuator

Impulse radiating antennas

The Impulse Radiating Antenna (IRA) is a special type of antenna designed to radiate ultra-wideband (UWB) electromagnetic field signals. UWB refers to a high-power electromagnetic (HPEM) threat for electronic and computer systems. Montena offers a complete test setup, including Half IRA (HIRA) and pulse generators.



Montena ultra-wideband (UWB) test setup

Turn-key systems

Montena offers system design services for customers seeking a single source for the design, development, on-site construction and installation follow-up, as well as system commissioning, acceptance testing and technical training anywhere in the world.

Systems are assembled, tested and certified at our facilities in Rossens, Switzerland.

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