High Precision HF Current Transformers

Super High Performance Lab-Grade Current Transformers

- Laser and Plasma research
- EMC and EMI research
- Semiconductor gate switching
- Lightning research and simulation testing
- Capacitor and electrostatic discharges
- Corona wire discharge
- Partial Discharge measurement
- Critical monitoring of current fluctuations
AMS Technologies is Europe’s leading solution provider and distributor for Optical, Power and Thermal Management Technologies.

Super High Performance Lab-Grade Current Transformers

Where technologies meet solutions

For more than 30 years, we at AMS Technologies have been supporting the European market with leading, innovative technologies and products that have allowed our customers to take prime position in their chosen markets.

AMS Technologies is a leading solution provider and distributor of high-tech, leading-edge components, systems and equipment, with more than 30 years of experience to date and currently serving more than 2000 European customers.

We are the specialists in both componentry and complete solutions for technology, Thermal Management and Power Technology fields, with access to and long standing relationships with the most advanced manufacturers in each of these fields. Drawing extensively on our experience in each of these differing technologies, and coupling this with our broad system-level competence, we are able to offer seamless and comprehensive solutions incorporating complementary aspects from all three key technology fields.

With an appropriate technical education, an element of entrepreneurial spirit and many years of design and consultancy expertise, our sales engineers can rapidly comprehend system requirements and provide you with a solution that goes way beyond a simple understanding of our product datasheets. We take active involvement in the design cycle, defining and re-defining your specifications, and leading in many cases to highly specific, customized products and solutions. Helping you to effectively source your production line, we can even provide you with the necessary leading turnkey contract manufacturing services in our key competency fields.

AMS Technologies has been delivering solutions into a variety of high-tech markets, including renewable energies, medical, defence & aerospace, research & scientific and various other industrial segments. Our customer base consists of Europe’s largest leading technology corporations, a network of universities and research institutes as well as the most promising start-ups.

We thrive by working in a ‘customer first’ environment. Our pan-European customers are serviced from a network of local offices in Germany, the UK, France, Italy, Spain, Poland and Sweden, with a focused operations and logistics centre located in Munich, Germany.

Our commitment: Identifying the best solution for your project enabling you to become your customers’ first choice!

Your AMS Technologies team

The product range offers the measurement of currents from microamps to 20K amps, at frequencies ranging from 0.5 Hz to 500 MHz. The output signal of the transformer is an accurate voltage waveform representation of the measured current, which can be analyzed on an oscilloscope, RF power meter, spectrum analyzer or custom interface circuitry.

Application and industrial sectors

- Laser and Plasma research
- EMC and EMI research
- Semiconductor gate switching
- Lightning research and simulation testing
- Capacitor and electrostatic discharges
- Corona wire discharge
- Partial Discharge measurement
- Critical monitoring of current fluctuations

Super High Performance Lab-Grade CTS

Offering superior performance and quality, the transformers are available in five case sizes, can be terminated with BNC or SMA connectors and offer sensitivity range providing environmental application flexibility. All transformers can be shipped with certificate of calibration and factory test data, ensuring optimum levels of performance are realized.

The pickaCT program

AMS Technologies has invested into the pickaCT program offering customers off the shelf availability of a large number of different HF current transformers. The product range offers the measurement of currents from micromamps to 20k amps, at frequencies ranging from 0.5 Hz to 500 MHz. The selection guide to these preferred current transformers can be found on the next page or online: www.amstechnologies-webshop.com/current-transformer

For large volume applications we recommend to call your regional AMS Technologies office, so that we can tailor a solution based on your technical needs.

Contact us

AMS Technologies
Where technologies meet solutions
## High Precision Split-Core Current Transformers

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<th>Model-Nr.</th>
<th>Output (V/A) in 1M Ω</th>
<th>Output (V/A) in 50M Ω</th>
<th>Max. rms (A)</th>
<th>Max. peak (A)</th>
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Visit our web shop!
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- 1-2 day delivery
- Favourable shipping costs
- Compare products

www.amstechnologies-webshop.com/Current-Transformer
High Voltage Power Supplies

AMS Technologies capability in this area encompasses different equipment catering to a wide range of voltage, power and current levels for numerous applications in pulse power, high voltage, optical and measurement markets. With several expert partners developing market specific modules and systems, AMS can provide a broad spectrum of different equipment catering to many different applications. Whether pulse discharge, RF, filtering, precision or wound film capacitors, AMS Technologies has the expertise and product range to fulfill all your high voltage needs.

Capacitors

AMS Technologies enjoys excellent relationships with several suppliers that manufacture capacitors for many different applications. Whether pulse discharge, RF, filtering, precision or wound film capacitors, AMS Technologies has the expertise and product range to fulfill all your high voltage needs.

Our extensive knowledge and experience allows us to advise customers on the correct components, such as contactors and interrupters for high voltage DC applications.

Snubber Protection

The power switches are the heart of every power converter. Their operation will directly determine the reliability and efficiency of the product. To enhance the performance of the switching circuit of power converters, snubbers are placed across the power switches to suppress voltage spikes and damp the ringing caused by circuit inductance when a switch opens. Our partner NWL is a leading manufacturer of snubber protection capacitors, clamping capacitors, and commutation capacitors.

Contactors and Interrupters

In many utility and safety applications, hermetically sealed, vacuum switches are required in explosive as well as normal environments. The contactors and interrupters from AMS fulfill all these requirements and also provide a cost-effective solution for all DC and AC switching applications where high voltage and high power need to be controlled.

IGBTs & Thyristor discs

AMS Technologies’ capability in this field covers a lot of different semiconductor switching devices. Our focus is on semiconductor products for switching higher voltages and powers (more than 1kV at up to 300A), as opposed to general semiconductor devices used in consumer products.

Our solution approach

AMS Technologies’ solution approach has helped hundreds of customer projects to move from concept to production. Helping you to understand our capabilities, we invite you to browse a list of the many projects that we have successfully completed over a timeframe closely approaching 30 years.

Our three key competencies Optical, Power and Thermal Management have no logical bits and bytes, nor industry qualification standards. Hence the design of a system and the choice of the right technology, supplier and products can only be based on knowledge and experience in those fields. AMS Technologies has built a comprehensive knowledge base in those three key competencies, enabling us to provide customers with complete solutions, over and above the mere product support for standard design aspheres we can provide.

Our customer Ferroxcube offers a wide range of materials for different frequency bands, thermal conditions and type of noise to be suppressed, with complete data and characterization to ease the design process. Ferrites are an optimal solution for high frequency Electromagnetic Interference (EMI) suppression. Thanks to their high frequency stability provide a frequency increasing impedance that keeps the signal integrity while dissipates the noise. Ferroxcube offers a wide range of shapes and sizes for wound EMI filters, including rods, tubes, multihole cores and beads. Image: Ferroxcube

Our customer EMCC DR. RAŠEK, a leading provider of EMC, radio, electrical safety and environmental simulation, offers customers one-stop solutions from certification, consulting, engineering, research and development, to seminars and testing services for electromagnetic environmental effects (E3). The proliferation of power electronics has faced manufacturers with a difficult challenge – preventing component and system malfunctions caused by EMI interference. Furthermore, as the market is demanding increasingly compact devices, components have to be packed more and more tightly. This can cause electromagnetic coupling, disrupting system functions. Resolving these problems leads to steep development costs. Image: EMCC DR. RAŠEK
enabling your ideas.
Optical, Power and Thermal Management Technologies

GERMANY
AMS Technologies AG
Fraunhoferstr. 22
82152 Martinsried, Germany
Phone +49 (0) 89 895 77 00

FRANCE
AMS Technologies S.A.R.L.
Silic 649 – Bâtiment Magnolia
16, avenue du Québec
91045 Courtabœuf Cedex
Phone +33 (0) 1 64 86 46 00

ITALY
AMS Technologies S.r.l.
Corso Sempione, 215/B
20025 Legnano (Mi), Italy
Phone +39 0331 596 693

POLAND
AMS Technologies Sp. z o.o.
Mogiliska 69 St, Floor 2
31-545 Krakow, Poland
Phone +48 (0) 12 346 24 16

SPAIN
AMS Technologies S.L.
CF/Flors 35, 3º, 7º
08208 Sabadell, Spain
Phone +34 93 380 84 20

SWEDEN
AMS Technologies Nordic
Aspect Photonics AB
Aminogatan 34
43153 Mölndal, Sweden
Phone +46 (0) 8 55 44 24 80

UNITED KINGDOM
AMS Technologies Ltd.
Nene House, Drayton Way
Daventry, Northamptonshire
NN11 8EA, United Kingdom
Phone +44 (0) 1455 556360