

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 Optical technology, Thermal Management and Power Technology fields, with access to and long standing relationships with the most advanced manufacturers in each of those 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 the customer 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 outsource 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



- Optical Technologies
- Power Technologies
- Thermal Management

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
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- 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 microamps 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.

High Precision Split-Core Current Transformers

Model-Nr.	Output (V/A) in 1M Ω	Output (V/A) in 50M Ω	Max. rms (A)	Max peak (A)	Droop (%/us)	Rise (ns)	Max I.t* (As) in 50 Ω	-3db low (Hz)	-3db high (MHz)
CT-B5.0	5.0	2.5	2	200	3	0.875	0.0001	4800	400
CT-B2.5	2.5	1.25	5	400	0.75	0.7	0.0004	1200	500
CT-B1.0	1.0	0.5	8	1000	0.13	0.7	0.0025	200	500
CT-B0.5	0.5	0.25	11	2000	0.03	1.75	0.01	48	200
CT-B0.25	0.25	0.125	16	4000	0.015	3.5	0.04	24	100
CT-B0.1	0.1	0.05	25	10000	0.006	7	0.25	10	50
CT-B0.05	0.05	0.025	35	20000	0.003	17.5	1	5	20
CT-C5.0	5.0	2.5	2	200	3	0.875	0.0002	4800	400
CT-C2.5	2.5	1.25	5	400	0.75	0.7	0.0008	1200	500
CT-C1.0	1.0	0.5	11	1000	0.13	0.7	0.005	200	500
CT-C0.5	0.5	0.25	16	2000	0.03	1.75	0.02	48	200
CT-C.025	0.25	0.125	22	4000	0.01	3.5	0.08	12	100
CT-C0.1	0.1	0.05	35	10000	0.004	7	0.5	6	50
CT-C0.05	0.05	0.025	50	20000	0.002	17.5	2	3	20
CT-D5.0	5.0	2.5	2	200	3	0.875	0.0002	4800	400
CT-D2.5	2.5	1.25	5	400	0.75	0.7	0.0008	1200	500
CT-D1.0	1.0	0.5	11	1000	0.13	0.7	0.005	200	500
CT-D0.5	0.5	0.25	16	2000	0.03	1.75	0.02	48	200
CT-D0.25	0.25	0.125	22	4000	0.01	3.5	0.08	12	100
CT-D0.1	0.1	0.05	35	10000	0.002	7	0.5	2	50
CT-D0.05	0.05	0.025	50	20000	0.001	17.5	2	1	20
CT-E5.0	5.0	2.5	2	200	3	0.875	0.0002	4800	400
CT-E2.5	2.5	1.25	5	400	0.75	0.7	0.0008	1200	500
CT-E1.0	1.0	0.5	11	1000	0.13	0.7	0.005	200	500
CT-E0.5	0.5	0.25	22	2000	0.03	1.75	0.02	48	200
CT-E0.25	0.25	0.125	32	4000	0.01	3.5	0.08	12	100
CT-E0.1	0.1	0.05	50	10000	0.002	7	0.5	2	50
CT-E0.05	0.05	0.025	71	20000	0.001	17.5	2	1	20
CT-F5.0	5.0	2.5	2	200	3	0.875	0.0002	4800	400
CT-F2.5	2.5	1.25	5	400	0.75	0.7	0.0008	1200	500
CT-F1.0	1.0	0.5	11	1000	0.13	0.7	0.005	200	500
CT-F0.5	0.5	0.25	22	2000	0.03	1.75	0.02	48	200
CT-F0.25	0.25	0.125	32	4000	0.01	3.5	0.08	12	100
CT-F0.1	0.1	0.05	50	10000	0.002	7	0.5	2	50
CT-F0.05	0.05	0.025	71	20000	0.001	17.5	2	1	20

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www.amstechnologies-webshop.com/Current-Transformer





Accessories

A large selection of passive components for applications of more than 1kV is available from AMS Technologies. We can, for example, provide custom solutions and products such as capacitors and resistors for pulse, high voltage and RF usage.

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 package and specification levels to suit your 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 fulfil 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 fulfil 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 normal 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.

- Development of customized specification sheets
- Effective project management of any product development
- Higher level design services for system-level prototypes
- Interdisciplinary system-level integrated design
- Appropriate subcontractor selection and production support
- Proper vetting of technologies and suppliers
- Simulations and modeling of system-level designs
- Installation, training and servicing

„High frequency inside“ AMS solutions

High frequency Electromagnetic Interference (EMI) suppression



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*

EMC simulation testing for power electronics equipment



Our customer EMCC DR. RAŠEK, a leading provider for 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 EM 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

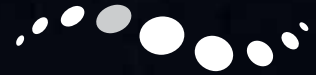
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Optical, Power and Thermal Management Technologies

■ GERMANY

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

■ FRANCE

AMS Technologies S.A.R.L.
Silic 649 – Bâtiment Magnolia
16, avenue du Québec
91945 Courtaboeuf 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.
Mogilska 69 St, Floor 2
31-545 Krakow, Poland
Phone + 48 (0) 12 346 24 16

■ SPAIN

AMS Technologies S.L.
C/Filadors 35, 3ª, 7ª
08208 Sabadell, Spain
Phone + 34 93 380 84 20

■ SWEDEN

AMS Technologies Nordic
Azpect 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



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info@amstechnologies.com
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