

COMPANY OVERVIEW

MICROENER SAS

Electrical protection with complete peace of mind



MICROENER

Experience, Cohesion, Peace of Mind

A recognized player for many years in the supply of electrical protection relays and control systems for the transmission, distribution, and use of electrical energy in industrial and tertiary environments, **MICROENER** offers innovative solutions to meet the most difficult technical challenges faced by its customers.

MICROENER was founded in 1997; since then, the technical sophistication of our solutions and our range of services have continued to grow. We maintain strong relationships with our customers thanks to our high added value and extensive expertise, our responsiveness, and the quality and reliability of our solutions. We know that our solutions enjoy an excellent reputation in the territories where they are installed and operated (France and Africa), because they embody our four core values: technical expertise, quality and reliability, responsiveness, and customer support.

Our teams work towards a common, shared, and focused goal. We draw on more than 35 years of experience in the field of electrical protection relays and related services such as electrical engineering, training on high- and medium-voltage electrical networks, and on-site interventions.

Thanks to our partnership with **PROTECTA**, the equipment we offer combines technology and expertise to provide network or electrical installation operators with the necessary intelligence and simple, reliable operation. With these products and solutions, **MICROENER** is ready to take on new challenges, create new solutions, and enter new markets.



Electrical Protection



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with complete peace of mind

Our business

Microener offers relevant protection, automation, and control solutions for applications related to the production, transmission, distribution, and use of electrical energy in industry and the service sector.

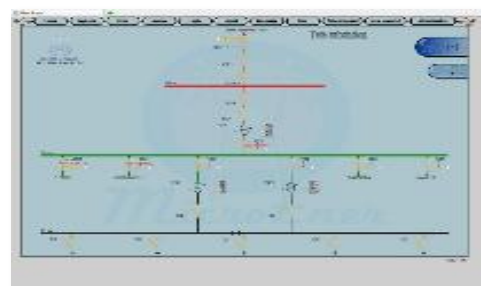
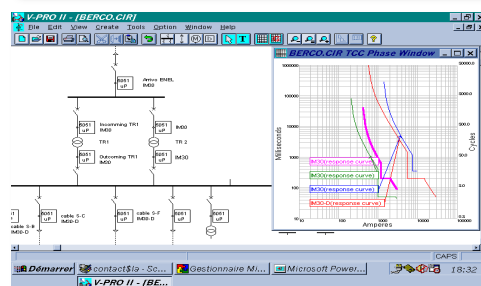
Microener's management team has over 35 years of experience in the field of protection for medium-voltage (MV) and high-voltage (HV) electrical installations. The engineers in the Applications department form the core of the company. For its technical activities, Microener relies on the most qualified experts in the sector. We are convinced that our future success depends on our current strength and past experience.

Today, we focus primarily on digital protection relays, digital control systems, engineering, training, and on-site interventions.

Our highly qualified and experienced teams make responsiveness Microener's most distinctive tradition. The range of products offered by the company covers all protection functions for high-voltage and medium-voltage installations, from production to use in industrial and tertiary environments.

Microener provides complete cabinet solutions for all types of power plants, transformers, lines, and complex busbars.

In addition to protection devices, we also offer substation calculators, voltage regulators for power transformers, transformer inrush current limiters, Petersen coil controllers, fast source transfer devices, and automatic synchro couplers. We also offer controllers for switching on capacitor banks, lines, or cables, and shunt reactors.





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With our extensive experience in control systems, we are also able to provide SCADA systems, offering complete solutions for high-voltage substation protection, loop reconfiguration, and supervision systems operating with a wide range of communication protocols.

Microener's success is based on the following core values: responsiveness, team spirit, innovation, quality and reliability, customer support, and flexibility. These values have enabled us to increase our market share in France and Africa in the transport, distribution, industry, tertiary, engineering, and training sectors. In recent years, we have also expanded our presence in the railway infrastructure markets, which has enabled us to work on various sites, mainly in France. Our presence in African countries has grown steadily over the last decade. We currently have more than 50 sites equipped with our digital control solutions or that have undergone our training.





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Our history

We are the result of more than 13 years of independence in a market dominated by major players; more than 25 years of experience in providing the most reliable solutions for electrical networks; and ever-increasing passion, flexibility, energy, and protection.

Microener's management team has over 35 years of experience in the field of electrical network protection. The company began operations on January 1, 1997. Thanks to this experience, Microener has experienced intensive growth, which has resulted in a dynamic increase in revenue and profits. Today, Microener is wholly owned by individuals who play a key role in the company's day-to-day operations.

The vast majority of Microener's products consist of state-of-the-art digital devices and complex protection systems. The M Range digital relays were launched in 1997. The MC and ULTRA M Range digital relays, which offer more compact and efficient solutions, were launched in 2005.

In 2012, we strengthened our offering by introducing the first relays in the Protecta range. The range was completed in 2016. These relays are mainly intended for HTB applications such as the protection of lines, cables, busbars, power transformers, but also alternators and motors. Then in 2020, it was the turn of the S24 relays from the Smartline range, which enabled us to meet the expectations of the distribution, industrial, and tertiary markets. And finally, the S16 relays in 2023, also from the Smartline range.

The strength of the Protecta and Smartline ranges lies in their design. Although they come in different housings, they use exactly the same electronic boards. This ensures optimized manufacturing costs and product availability by minimizing the number of variants, as well as the quality and reliability of the electronic boards, since they are manufactured in large numbers. These boards use extremely innovative microprocessors and microcontrollers designed for industrial applications, giving these protection relays extraordinary computing and processing power. In addition, the hardware and software designs of the devices are based on the IEC 61-850 standard.

These features allow the Protecta range to compare favorably with the most advanced protection devices currently available on the international market. We therefore offer the latest digital solutions for every protection and control application. The products we offer are IEC 61-850 certified by KEMA.



Microener's headquarters are located in Noisy-le-Grand, between Paris and Eurodisney.



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Our major milestones

Successive generations of devices have always kept pace with, and sometimes surpassed, the technical standards of our industry. Nevertheless, Microener is one of the few companies still offering a range of analog technology relays designed primarily for nuclear power plants.

1997

Company founded

Microener was founded in 1997 as the French subsidiary of the Italian company Microelettrica Scientifica, a manufacturer of protection relays based in Milan. The company is mainly made up of former employees of Compagnie des Compteurs (CdC) – Enertec Schlumberger.

1999

EDF Temporary Authorization for Use for IM30 and UM30

The first IM30/A and UM30/A digital relays obtained their authorization for use (ATE) in delivery stations and as decoupling protection. This ATE has been renewed to this day.

2005

MC range

The MC range relays are designed to replace the analog technology relays in the A range.

Siracus

Launch of the HTA Loop Reconfiguration System: SIRACUS

ULTRA_M range

Launch in France, in collaboration with our parent company Microelettrica Scientifica, of the new relays in the ULTRA_M range in France and Africa. This range provides protection and control in a single device.

2011 - 2012

Change of shareholders

Company executives buy out Microelettrica Scientifica's shares.

Partnership between Microener, Microelettrica Scientifica, and Protecta

Partnership agreement with PROTECTA

Launch of the first relays in the PROTECTA native IEC 61-850 range. This complements the previous ranges with relays designed for energy production and transmission.

2016 - 2019.

Siracus 2+, 3, and 3+

Release of the new generations of SIRACUS 2+, 3, and 3+ loop reconfigurators.

2020

S24 range

Range of native IEC 61-850 digital relays for high-power or complex industrial installations.

TRIM limiter

Launch of TRIM, a power transformer inrush current limiter

2022 - 2023

ENEDIS Temporary Authorization for Use of UMWH

Temporary Authorization for Use of UMWH homopolar wattmeter protection

S16 range

Simple digital relays for the protection of industrial high-voltage and low-voltage networks



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Our values

We are the result of more than 25 years of experience in a market dominated by major players; more than 25 years of experience in developing the most reliable solutions for electrical networks; more than 25 years of passion, flexibility, energy, and protection with complete peace of mind.

Mission

To provide technical support to our customers by offering them reliable, relevant solutions tailored to their needs. We are very proud of our solid engineering experience and of sharing it with our customers and partners.

Responsiveness

Responsiveness is our strength. It is our passion that drives us forward with dynamism and enthusiasm toward a safer, more secure, and more peaceful future.

Team spirit and cohesion

We believe that teamwork should be our strength. We aim to be a motivated and skilled team, capable of overcoming any form of distance by leaving room for exchange, sharing, conviviality, and recognizing the professionalism of each team member. We believe that integrity and loyalty in behavior, combined with generosity in effort and exemplary conduct, are fundamental values for guaranteeing results and success.

Innovation

We strive to exceed our customers' expectations by offering them tailored, innovative, and effective solutions; that is why we are always listening to our customers.

Quality

We pay close attention to the quality, reliability, and safety of the products and services we offer. We also ensure that our partners are fully compliant with international standards and certified according to the ISO 9001:2009 quality management system, the ISO 14001:2015 environmental management system, the BS OHAS 18001:2007 occupational health and safety management system, and the ISI/IEC 27001:2013 information security management system (ISMS).

These certifications also reflect our commitment to providing competitive, high-quality products and services that meet our customers' requirements and to ensuring their satisfaction at all times by implementing and improving high quality standards, while committing to protecting the environment and ensuring health and safety at work.

Customer Support

Microener's technical support team assists its customers with quick and competent responses, consistent communication, quality information, and professional training in order to maintain and improve our relationship with our customers.

We offer a comprehensive service to our customers, as well as assistance during FATs, commissioning, and maintenance. Microener is therefore more than just a supplier of equipment; we also provide all the services associated with our field of activity.

Flexibility

The company is always open to new solutions and special requests. We tailor our solutions to meet the needs of the most demanding users.

All Microener solutions are the result of close collaboration with our customers. This fact, combined with the flexibility offered by the size of our company, facilitates dynamic adaptation to demand, compliance with the latest requirements, and tailor-made solutions for specific tasks, positioning Microener as a major player in the industry.



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Our teams

For more than 25 years, our company has been offering innovative, reliable, and simple equipment and solutions applicable to all areas of electrical energy thanks to our highly qualified teams and customer-focused approach.

Applications

Our applications team provides support for the design, development, and testing of protection relays throughout the solution development process. It contributes to the development of the solution by considering the application from both the user's and the technical perspective; as a result, the solution provides the best answers, even for the most demanding problems. In addition, the Applications team offers training and technical support, as well as on-site assistance for diagnostics and expert assessments.

Manufacturing

The wiring workshop offers a wide range of services, including the manufacture of our protective cabinets, on-site replacement and wiring of obsolete relays, factory testing, as well as incoming and final inspections.

Technical

Microener's technical team is made up of highly qualified experts in the electrical energy and control command sector, with extensive field experience and an impressive track record. Our technical team develops innovative products, solutions, and services by focusing on our customers' requests, which allows us to adapt our products to meet all user requirements. Our highly qualified and motivated staff enables us to offer cutting-edge products and services that meet all protection, safety, and continuity requirements.

Marketing and Sales

Our specialized marketing team is constantly attentive to the real needs of our customers/partners and market developments, drawing on the latest technical advances in our field. It defines the strategic directions to be integrated into the development of our solutions.

Our Sales department is made up of two entities. The first is dedicated to the promotion and sale of solutions and services. The second is dedicated to order fulfillment. This unit is responsible for tracking the fulfillment of all orders, whether for a simple relay or a turnkey digital station. The responsiveness of our Sales network provides rapid responses to our customers' needs by offering the most cost-effective technical solution while ensuring maximum reliability.

Outdoor Work

The outdoor work team manages the schedule of on-site interventions and liaises between customers and technicians working on site to commission or replace obsolete relays with our protection relays. Interventions are carried out both in France and abroad.





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Fields of application

Microener IEC 61-850 native products offer complete solutions for electrical protection, automation, and control of low, medium, and high voltage electrical network equipment. Our devices can be used in a wide range of applications, from power generation to transmission, distribution networks, and industrial applications. In addition, our devices can be used for railway catenary systems and renewable energy applications.

Power plants

Protection for alternators, block transformers; automatic synchronous coupler; protection for excitation circuits, rotating diodes.

Transmission and distribution lines

Distance protection; line differential protection; single-phase or three-phase automatic reclosers

Transformers

Differential protection for two- or three-winding transformers; starting current limiter; voltage regulator.

Busbars

Busbar differential protection (centralized or decentralized) for all types of substation architecture; synchrocheck.

Distribution networks

Protection for feeders, capacitor banks; load control and distribution; substation computer; automatic recloser.

Industries - Tertiary

Outlet protection, transformers, motors, capacitor banks, emergency or backup generators; rapid source transfer; loop reconfigurators; decoupling protection; SCADA.

Railway infrastructure

Catenary protection; remote fault detectors (RFD); transformer protection.

Renewable energies

General protection C13-100; decoupling protection C15-400; transformer inrush current limiter; transformer protection.



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