



the energy saving technology



MADE IN ITALY

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Who We Are

Since 1993, Electrex has been designing, manufacturing, and supplying instruments and software for the measurement, optimization, and management of energy consumption and production, both in Italy and abroad.

Our solutions — used in **energy efficiency and energy automation applications** — are deployed across **industrial, commercial, residential, public sector, and renewable energy applications**, ensuring a fast return on investment.

As pioneers in our sector, we have built over the years a wealth of **experience and expertise** that few can match.

With over 40% of our staff dedicated to R&D, we continually invest in innovation to anticipate our clients' needs.

We manage every phase of the product lifecycle — from design to after-sales support — through a flexible and dynamic organization, increasingly valued by our partners in both domestic and international markets.

Discover more





What We Do

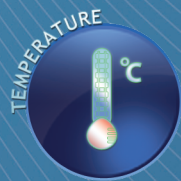
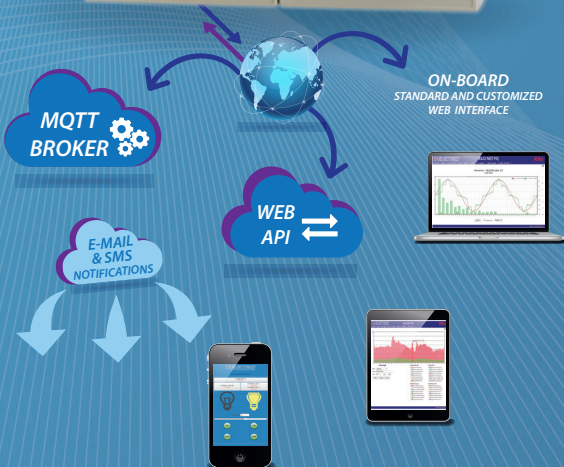
At Electrex, we design and manufacture complete solutions for intelligent energy management.

Our instruments measure **energy, environmental, and process parameters**, monitor **power quality**, and **automate** the control of **energy consumption and production**.

We provide **monitoring and remote-management networks, software platforms for data collection and analysis (EMS)**, and **intuitive interfaces** for visualization on **PCs, tablets, smartphones, and displays**.

Our **web servers, gateways, converters, and communication interfaces** ensure **seamless data integration** with **MES, SCADA**, and other corporate systems.

We also develop **custom OEM solutions** and provide **training and technical support** to help our clients achieve **smarter and more efficient energy management**.





ENERGY ANALYZERS

Net Series – Advanced instruments for electrical energy monitoring, power quality analysis, and integration of additional utilities (gas, water, compressed air) and environmental parameters.

They offer **Wi-Fi, Ethernet, E-Wi, RS485, and NFC connectivity**, and include integrated **datalogging, remote control, and Energy Automation** functions.

Pro Series: Modular analyzers with **RS485 communication** for electrical parameter monitoring and power quality analysis.

They can be expanded with **I/O modules and environmental sensors**, making them ideal for industrial and **Energy Automation** applications.

4Hall / DC Sensors Series: Power analyzers equipped with **Hall effect DC sensors** for accurate measurement of direct current energy. Ideal for **photovoltaic systems, energy storage, telecommunications**, and other **DC applications**.

I/O DEVICES

Pico Pro D4, Pico Pro E-Wi & Milli I/O: are devices equipped with **digital and/or analog inputs / outputs** for monitoring energy and process signals. Available with **wired or wireless E-Wi connectivity**, they are ideal for **Energy Automation** in industrial and commercial environments.



MULTIFUNCTION SENSORS AND AIR QUALITY

Milli Sensor, Pico Pro Node & AirQ: monitor temperature, humidity, luminosity, CO₂, VOCs, particulate matter, and other environmental parameters. They enable alarms, HVAC control, and efficient environmental management. Available with **wired or wireless E-Wi connectivity**.

GATEWAY/DATALOGGER

Yocto Net D6: is a gateway and datalogger designed for remote data collection and management from Electrex or third-party devices. It offers full connectivity and **multi-platform access** — from PC, tablet, and smartphone to SCADA/HMI systems.

CUSTOM PLUG&PLAY SOLUTIONS

Libra Energy Automation Panel: is a modular solution for load monitoring, supporting up to **7 three-phase and/or 21 single-phase** measurements. It can include a **UPS, UMTS router**, and integration of **environmental sensors**. Quick to install and easily configurable, it provides a **tailor-made plug & play** solution for energy automation.



Software

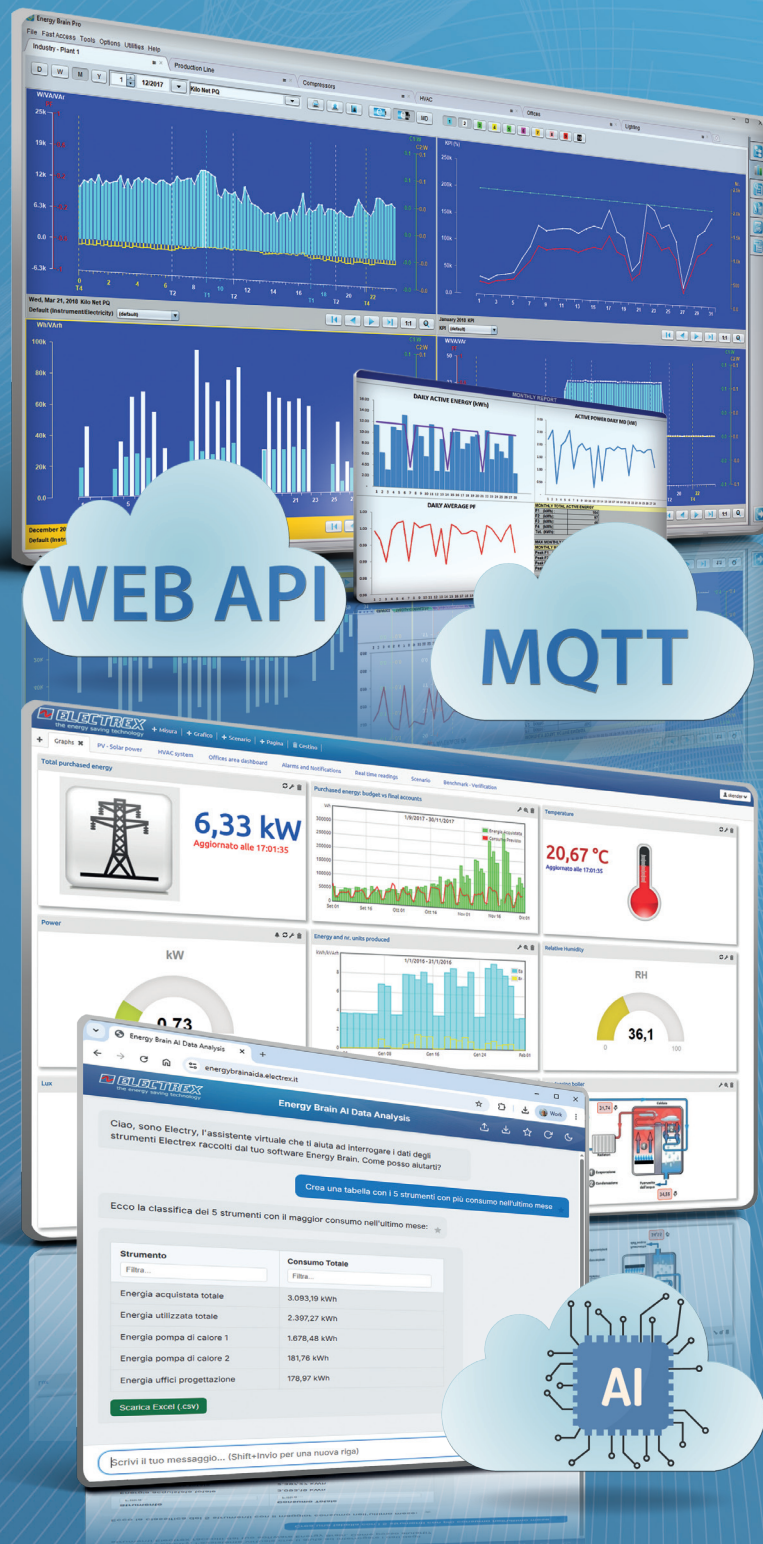
Energy Brain – The Intelligent Platform for Energy Management

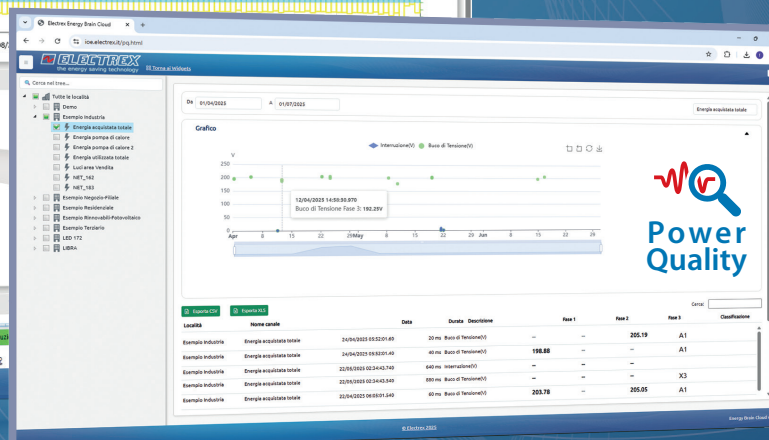
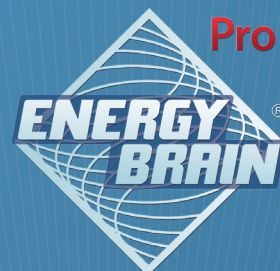
Energy Brain is Electrex's modular software solution for intelligent energy monitoring and advanced energy efficiency management. It collects and analyzes data from multiple sources — including electricity, gas, water, steam, compressed air, and environmental parameters — to optimize processes and support corporate sustainability and efficiency strategies.

Thanks to compatibility with **MQTT** and **Web API** protocols, Energy Brain easily integrates with existing company systems, fully meeting the requirements of **Industry 4.0** and **5.0**.

- **Energy Brain PRO:** Centralized data management with detailed analyses, KPI indicators, customizable formulas, and validation tools.
- **Energy Brain Cloud:** Access data from any device via browser, with intuitive visualizations and hosting options both in the cloud and on-premise.
- **Automatic Reports:** Periodic, customized reports on consumption, thresholds, and anomalies automatically sent via email for constant and proactive monitoring.
- **Energy Brain AI Data Analysis:** The virtual assistant **Electry** allows users to query energy data using natural language and instantly obtain insights on consumption, costs, and performance.

Energy Brain helps companies reduce energy costs, improve sustainability, and enhance control over their entire energy system.





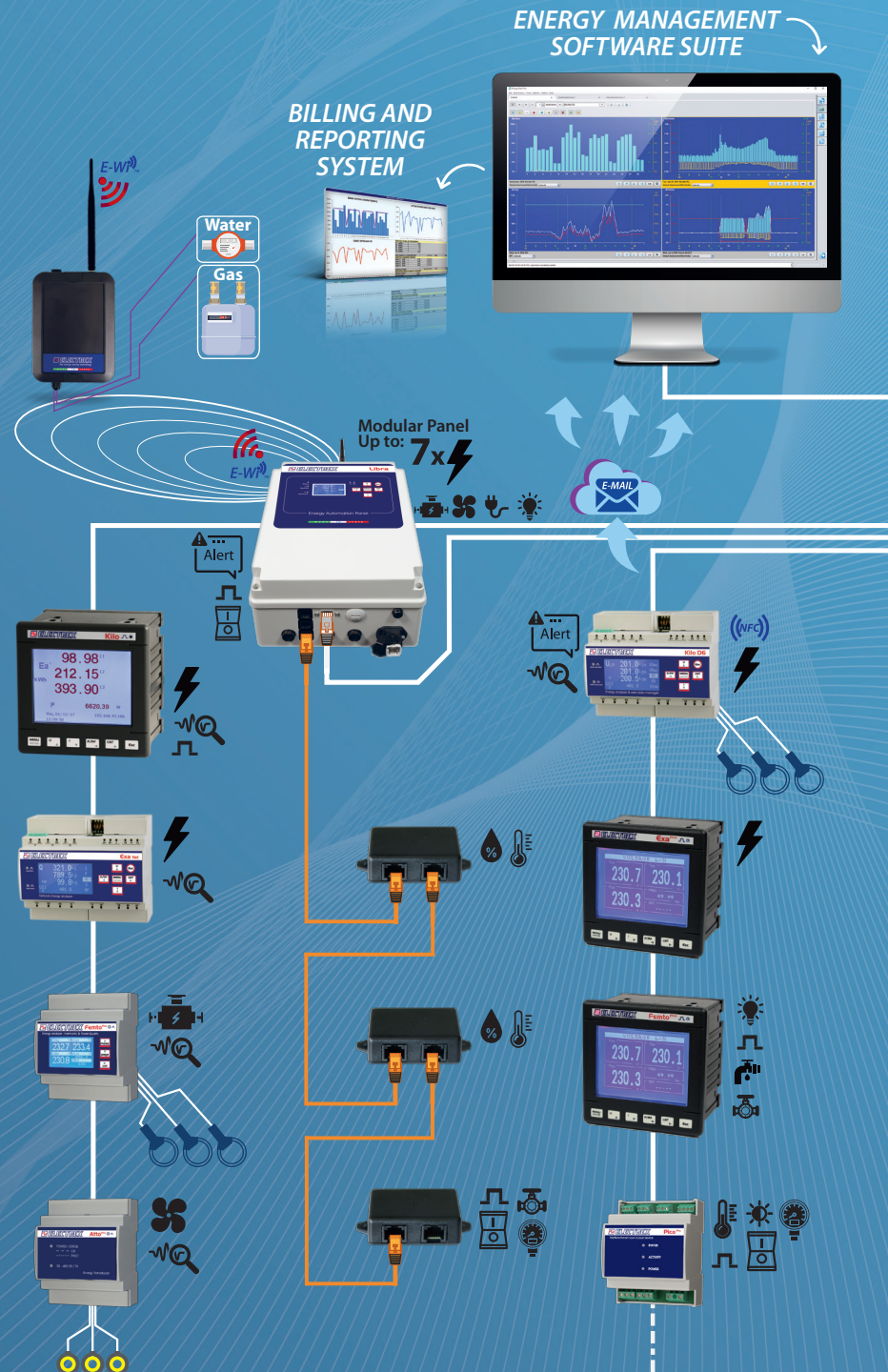
Energy monitoring & management systems

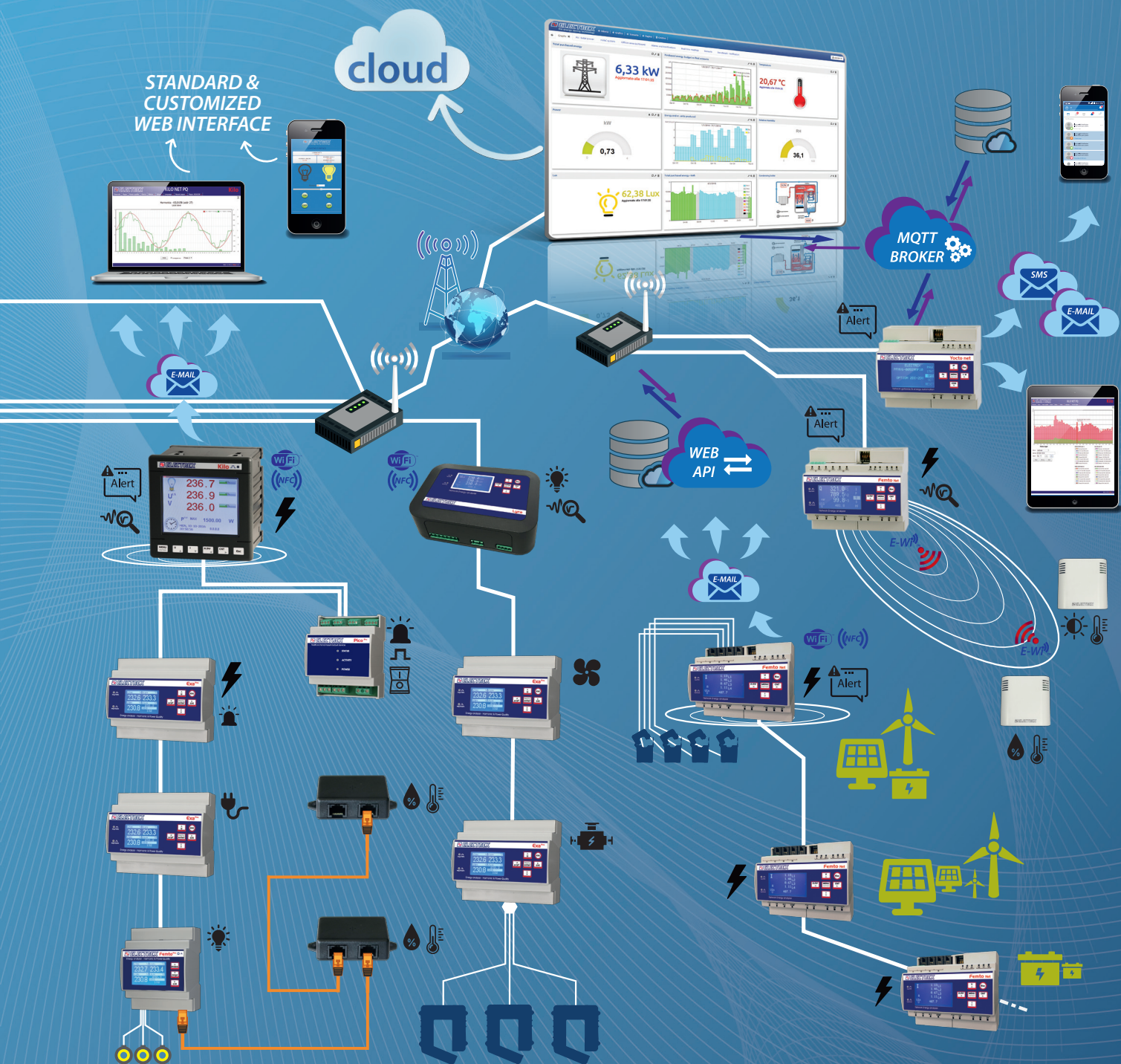
Electrex monitoring systems are ideal for energy audits, continuous monitoring (e.g., ISO 50001), and efficiency projects (e.g., EU Directive 2012/27/EU, White Certificates).

The systems are **modular, scalable, and interconnected** via Wi-Fi, RS485, Ethernet, NFC, E-Wi, and ExpBus. They enable integrated management of **energy** (electricity, gas, water, etc.), **environmental parameters** (temperature, CO₂, humidity, luminosity, etc.), and **process variables** (compressed air, heat, operating status, etc.).

Thanks to **Energy Automation** features, users can automate switchings, regulations, alarms, and remote control — all within a single unified system.

Electrex supports companies on their journey toward **Industry 5.0**, where sustainability, efficiency, and digitalization converge to reduce energy costs while enhancing productivity and resilience.



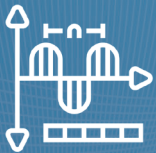


Applications



ENERGY EFFICIENCY

Electrex solutions optimize energy consumption across industrial, commercial, residential, and public sectors — delivering measurable savings and a fast return on investment (ROI).



POWER QUALITY

Monitoring power quality is essential to reduce costs, prevent failures, and maximize the efficiency and lifespan of installations.



RENEWABLE SOURCES AND DIRECT CURRENT

Electrex provides solutions for monitoring direct current (DC) in charging stations, renewable energy plants, data centers, and microgrids — addressing the growing demand for energy efficiency and system reliability.



COST CENTERS

Energy analyses help identify the most significant energy cost centers, enabling companies to improve efficiency through targeted and strategic investments.



ENERGY AUTOMATION

Electrex integrates machines and systems to optimize energy management through a **PLC built into the Net series devices**.



REMOTE MONITORING AND MANAGEMENT

Electrex solutions enable continuous, real-time control of systems and processes, providing 24/7 analysis and management capabilities.



PREDICTIVE MAINTENANCE AND ANOMALY DETECTION

Continuous monitoring allows targeted interventions based on actual operating conditions — preventing failures, reducing downtime, and optimizing maintenance activities.



INTERCONNECTED MACHINES

Low-impact solutions to integrate monitoring and control technologies into both new (OEM) and existing machines, optimizing energy consumption, production, and maintenance — even remotely.

Discover more





DIGITALIZATION AND INTERCONNECTION

The **Electrex IoE platform** enables remote management and interconnection between plants and systems, strengthening business resilience through process digitalization and remote collaboration.



IOE – INTERNET OF ENERGY

Electrex IoE is the digital platform that brings the power of the Internet of Things (IoT) into the energy world, combining energy monitoring and automation for real-time, intelligent control of facilities and buildings.



ENVIRONMENTAL AND PROCESS MEASUREMENTS

Electrex solutions make it possible to monitor all environmental and process parameters within a single system, providing a comprehensive and integrated view of the factors that directly affect energy consumption.



AIR QUALITY

Electrex solutions enable complete monitoring of the main air quality parameters (PM, VOC, CO₂, temperature, humidity, pressure) and the automated management of HVAC systems — ensuring efficient, sustainable, and intelligent energy use.

Training Electrex Academy



Electrex Academy

With the Electrex Academy, we place technical and application training at the core of our support for professionals and clients. We organize regular and on-demand courses at our headquarters, offering participants the opportunity to experience our solutions firsthand and interact directly with our engineers and designers.

We also support customers during installation and commissioning phases, ensuring a complete transfer of know-how.

OEM Design Tailor-made solutions with your brand

Thanks to our decades of experience and full in-house control of every development stage, we can design and manufacture customized instruments, firmware, and software — also under your brand. We have already partnered with major industrial companies and machine builders (OEMs).

Each project is managed by our R&D team to ensure maximum efficiency, fast turnaround times, and results that fully meet both technical and market requirements.



ITALY & WORLDWIDE

A global network of partners!



530.000+
devices installed



electrex.it



Electrex is a brand of AKSE srl

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