

Electrosys is a leading international company born to answer the growing global needs in broadcasting

Electrosys is a leading international company born to answer the growing global needs for a single source of design, technology, services, implementation, consulting and training in broadcasting and TLC systems. Electrosys core business encompasses broadcast transmission, analog and digital equipment, and turnkey solutions: from design up to system training and management, including custom shelters and civil works



generation of our management system can monitor, control and run diagnostics on all internal and external communications. Thanks to this process, it is possible to monitor the transmitter parameters locally (LCD, RS232 and Ethernet) or remotely by using any network infrastructure (IP, PSTN and mobile networks). Besides transmitter parameters, the



Located in Orvieto (Italy), Electrosys boasts a network of affiliates, agencies and representatives in the most important markets worldwide. Thanks to this elaborate network, the company is present around the world and participates in all major broadcast conventions and conferences. During the last fiscal year, Electrosys increased its revenue by nearly 60 percent and expects this positive trend to continue thanks to the constant evolutions of its product lines as a result of an intensive R&D program. The firm prides itself with offering superior technology, performance, quality and flexibility as regards all its products and services. Thanks to the experience gained from installing products worldwide, today Electrosys is able to also offer an excellent and broad range of services – network planning, installation, commissioning, maintenance, operation and training – providing clients with fast, professional, complete and unbeatable support.

Television broadcasting

Electrosys broadband television transmitters utilize advanced solid-state RF amplifiers, inductive

output tubes (IOT) or tetrode technologies, covering output frequencies from band I to L-band and powers from 1 W to 180 kW. The new family of Electrosys solid-state transmitters – both liquid and air-cooled – supports all analog and digital television standards with an output power of up to 3.5 kW in digital mode and 13.5 kW in analog mode for each individual rack. This guarantees a significant reduction in production costs – which, in turn, means a huge advantage for the customers – and in operational costs. The transmitter is equipped with all necessary functions like multimode exciter, MEX, now available with the new automatic digital pre-correction system, transmitter control logic unit and remote control for SNMP and Web-server interfaces.

Radio broadcasting

Electrosys solid-state broadband **FM transmitters** cover powers ranging from 1 W to 30 kW, using high-efficiency LD-MOS devices to minimize operating costs. As an alternative to the reliable analog FM exciter, it is possible to equip all transmitters with the newly developed FM exciter, thus rendering signal processing totally

digital.

But Electrosys is also synonymous with radio broadcasting **DAB products**. Our solid-state DAB transmitters are available in output power classes from 1 W to 5 kW in VHF Band III, and from 1 W to 1.2 kW in the L-Band. Multi-block transmitter configuration allows the integration of up to four DAB modulators in a single transmitter. This enables any DAB transmitter to broadcast up to 24 radio programs, over four channels with one transmitter.

Gap fillers

Gap fillers are devices with vast applications in any television broadcasting network whether analog, digital or even in the most current DVB-H networks for mobile television. In this context, Electrosys has put on the market an extremely flexible product able to handle even the most rigorous customer's demands.

Automation and scientific application

The Electrosys **automation business line** provides a wide range of products to enhance and manage communications gear and network infrastructures. The latest

Electrosys control system can also monitor other station parameters, making it possible to keep tabs on the operation of unmanned broadcasting stations.

Scientific application is a highly regarded company business. Products include equipment that utilizes radio frequency for applications in advanced physics and biomedicine, as well as very high-power amplifiers for applications such as particle accelerators in synchrotron projects. Electrosys develops customized solutions after having carefully studied and evaluated each situation.

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