



→ DATA CENTER SOLUTIONS



→ SENSYS DATA CENTERS

EFFICIENT SOLUTIONS - COMPETITIVE PROJECTS

At **SENSYS** all efforts are directed towards a high level of quality and specialization.

Allied to several technological partners that constitute a value chain, **SENSYS** executes its ideas, from project to equipment production and integrated solutions creation, designed according to its clients needs.

- SENSYS makes available a new generation of solutions for Data Processing Centers (CPD) that provides liability and high efficiency to your project.
- SENSYS solutions are compliant with the Telecommunications Infrastructure Standard for Data Center TIA/EIA – 942, among other references.
- SENSYS also ensures full management of infrastructures and services, through global operation and maintenance of technological facilities.
- Use of innovative management systems that allow optimization of the companies' physical resources, increasing productivity and promoting competitiveness.



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A NEW PARADIGM IN DATA CENTER CREATION

Presently, for the organizations, **DATA CENTERS** (Data Processing Centers) are the main core of most business processes. It is where applications, databases, storage and communication systems lie, ideally available 24x7x365, assuring continuity. With an exponential growth of data volumes there is a higher demand for processing capacity, bandwidth and storage space. Thanks to a growing technological evolution of electronic components and through different technologies, today there is a bigger concentration of the necessary power and subsequent heat dissipation by rack, creating the need for new technologies otherwise compromising the energy efficiency of the Data Processing Center (DPC).

Present technologies – blade and X-processors – 64 bit multicore x86 – increase the processing capacity, reduce the system's energy consumption and administration costs. Through virtualization tools it is possible to share resources on the level of processing, networking and storage – Cloud Computing –, thus reducing the total cost of ownership and increasing availability.

Likewise, the increasing demands in what bandwidth is concerned require an adequate dimensioning of the copper cabling structures as well as F.O. and the use of components that guarantee the future growth of the Data Center and that ease daily management and decrease eventual halt risks.



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The evolution of the project and the dimensioning of the technical infrastructures that support the operation of a DPC have given place to a new paradigm that is placed, fundamentally, upon concepts of high availability and energy efficiency.

The criteria adopted, **Modularity, Redundancy, Scalable Solutions** also allow a better optimization of the investment during the development project.

The physical infrastructures supporting the Data Processing Center involve the following areas:

- Energy
- High Precision Air Conditioning
- Racks Solutions
- Electronic and Physical Safety
- Cabling
- Infrastructures Management



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ENERGY



Integrated Distribution for an Optimized Management

Power supply is indispensable for the operation of the Data Center. A stable, redundant, power supply and a liable energy distribution system, that protects the equipment, assures high efficiency and saves power, simultaneously, are fundamental considerations at the moment of a Data Center configuration and/or maintenance.

SENSYS Energy Management Solution is made up of:

- Uninterruptible Power Supply (UPS),
- Energy Distribution Cabins (EDC)
- Power Distribution Units (PDU), allowing optimized power distribution and protection of the devices inside the racks.

The power supplied to the CPD is, thus, clean and stable, assuring the continuous operation in case of energy shortfalls and allowing maximum operating efficiency at the least cost.



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Classical and Modular UPS

These equipments are destined to isolate and protect charges and equipment of the most diverse disturbances and anomalies of the electrical power network as well as from atmospheric phenomena. They prevent mains failures, guaranteeing uninterrupted operation. Besides the corrective action, UPSs also exert a preventive action, informing the user of eventual issues, alarms and multiple occurrences. SENSYS UPS's adapt to different technologies, possessing all accessories and in/out options. They comply with specific and strict technical requisites for different uses:

- Computing,
- Laboratorial,
- Industrial,
- Telecommunications,
- Domestic,
- Business related,
- Military,
- etc.



Generators

Consisting of a monitoring and control unit, a fuel tank, a diesel engine coupled to a three-phase Alternator, as well as a transfer frame between powers, the system takes over the charges automatically in a few seconds.

The generator can also supply power to limit the demand from the agent.

PDU (Power Distribution Unit)

The growing need to control power and electricity supply in an equipment installed in a Data Center made the use of PDUs (Power Distribution Units) fundamental in each installation, allowing control and monitoring of the power supplied to the equipment, diversifying, on the other hand, power sources. SENSYS makes available a wide range of power distribution solutions for your IT environment. SENSYS'S PDUs were created to increase the management capacity and the efficiency of the Data Center. These solutions offer remote monitoring in real time, of the charge of the connected equipment and power control of the individual plugs to recycling, of the power supply and of the equipment's on/off sequence management.



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HIGH PRECISION AIR CONDITIONING



Temperature and Moisture Precise Control

Precision Air Conditioning Systems are particularly applicable in the telecommunications and advanced computing systems areas. They make it possible to keep your business's critical equipment under recommended temperatures, increasing its lifecycle and making your investment profitable.



Data safe storage is a vital issue for companies. More and more compact servers, with a growing processing capacity, need to be efficiently and liably ventilated. [SENSYS](#) High Precision Air Conditioning was designed for continuous operation, bearing optimization of power expenditure and minimum floor space in the server room, providing precise control of temperature and moisture in Data Centers.



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RACKS SOLUTIONS



Flexibility and Safety

SENSYS presents a complete line of racks, with a wide range of accessories.

SENSYS FLOOR RACKS are prepared to be installed in Data Centers.

They are compatible with installations in contention tunnels and ceiling screens and support several door configuration types for housing applications. These solutions, liable, integrated and easily manageable, reduce the failure risks, decrease the repair average time, simultaneously allowing the creation of a customized solution.



ELECTRONIC AND PHYSICAL SAFETY



Added value warranty

Together with its technological partners, SENSYS is capable of assuring the best safety solutions, with high quality and technology standards, creating value, in a sustainable way, for all intervening:

- Video surveillance
- Intrusion detection
- Fire and gas detection
- Access control
- Anti-shoplifting



On the other hand, it provides technical and commercial excellence support, with added value warranty.



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CABLING



Cable organized management

More and more equipment is stored in racks and cabinets. The need for a cable organized management, inside and outside the rack, has become crucial and urgent. A bad management may not only damage cables and increase the time required to change/add cables, but also block access and airflow.

Consequences are clearly harmful, like the inefficient operation of the equipment or even an increase of the amount of idle-time.

Besides a wide experience in cabling installation, SENSYS also possesses a wide range of accessories that provide different cabling management options, satisfying different needs. From simple management rings to horizontal and vertical cable managers (with rails and stairs), SENSYS provides a multitude of solutions.



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INFRASTRUCTURES MANAGEMENT



Solutions that automate tasks

Remote monitoring and management constitute a safety and high availability basis in critical missions, warranting maximum productivity. Among other aspects, they simplify control and supervision of an IT, communications or telecommunications infrastructure.

SENSYS provides solutions that automate tasks, allowing the proactive resolution of imminent issues.

The remote management and monitoring functions allow you to control the primary, active and passive, equipment of the Data Center.

An eventual anomaly generates alerts that trigger preventive or corrective actions with the support team.



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PARTNERSHIPS OF EXCELLENCE

Lasting and beneficial relationships



Focused on a sustained growth and on a wide business vision, SENSYS looks for a close cooperation with its suppliers, internationally renowned in several areas in which the company operates. It is only possible to develop lasting and beneficial partnerships through a high-level cooperation.

For that purpose, **SENSYS** establishes privileged relationships with its partners where the communication of innovating ideas and solutions is the basis of its business



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TECHNICAL CONSULTANCY



The first contact established with the client by SENSYS is with a view to evaluate the actual needs and most adequate choices for carrying out the project, namely its location, risk analysis of present facilities and investments in the project infrastructure

SENSYS' Designers and Engineers work together with the client to determine the most adequate safety and availability levels to the needs of the Data Center. The project's characteristics are also determined, as well as the methodologies and certifications to be applied.

CERTIFICATION POLICY



Quality Management

Having as its main philosophy its clients' satisfaction, SENSYS always presents the most adequate solution to their needs. In this respect and bearing in mind the permanent improvement of its services and the effectiveness of its solutions, SENSYS considers the certification by the Quality Management System crucial, in conformity with standard ISO 9001, based on the principles of resources and processes' simplification and optimization; its collaborators' development and the excellence of rendered services; engagement in the accomplishment of the ISO 9001 standard's requisites, as well as in the setting up and in the revision of quality objectives.

Partners



Certification:





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