



Sertec S.R.L.
Soluciones inteligentes pensando en usted

NICE

INTERNAL ELECTRIC
FIELD NEUTRALIZER

A TECHNOLOGY THAT MINIMIZES THE EFFECTS OF THE ELECTRIC FIELD

The device's function is to absorb and ground the electric and electromagnetic field/radiation generated by the electrical and electronic components present wherever there is an electrical current flow.

Its function is to maintain the harmful effects of electric and magnetic fields at a tolerable level at all times, minimizing their effects on the protection of people and animals.

This operation can be verified by draining the charges into its down conductor to the grounding system and is compatible with any grounding system in homes, industries, offices, and other places.

The new technological system is placed inside the facilities to be protected, on tripods or supports, at a height of at least 70 centimeters above ground level.

“Its function is to maintain the effects of electric and magnetic fields at a tolerable level at all times”



THE PROBLEM OF ELECTRICAL AND ELECTROMAGNETIC POLLUTION



The consumption of electrical energy has become an integral part of daily life. Whenever there is an electric current flow, electric and magnetic fields are created along the conductors that transport it, as well as around the devices that consume it. Although there are natural electric fields, such as those produced by phenomena like storms, this problem focuses on electric and magnetic fields produced artificially indoors. The main sources of electric fields in our environment are the result of human activity and, specifically, the operation of energy systems, industrial equipment, offices, and household devices within the home.

Among the most common sources of electric and magnetic fields are overhead power transmission lines, underground lines and substations, the electrical industry, domestic and office circuits. Within homes, there are sources of both electric and magnetic fields, such as televisions, washing machines, refrigerators, etc. There are also many sources of electric and magnetic fields in office environments, including computers, UPS systems, lighting systems, electrical lines, data centers, and others.



THERE IS TECHNOLOGY AVAILABLE THAT CAN REDUCE THE EFFECTS OF ELECTRIC FIELDS

In telecommunications, the emission or reception of information signals requires electrical power, which generates electric and magnetic fields. Any device powered by electricity or any phenomenon that generates current flow or radiation through other sources as mentioned before, produces electric fields and the flow of current generates magnetic fields. These fields can cause health damage in the short or long term, such as migraine, semicircular lipoatrophy, emotional disturbances that can affect performance in offices and homes, stress, among other symptoms.



**HIGH DENSITY
CE**



**These fields can cause health damage
in the short or long term,
such as migraine,
semicircular lipoatrophy,
emotional disturbances (...)**



**With NICE-SERTEC, these health
effects on people in the home
are reduced.**

**CONTROLLED
SITUATION**

MEASUREMENTS OBTAINED WITHOUT NICE-SERTEC

For the measurements of electric and magnetic fields, the equipment was configured at a frequency of 50Hz and 1999 nT/Vm because the frequency of the electric power grid in Paraguay is 50Hz.

As seen in the above images, the measurements obtained without the installation of NICE were as follows: Electric Field: 213 V/m - Magnetic Field: 134 V/m.



ELECTRIC FIELD

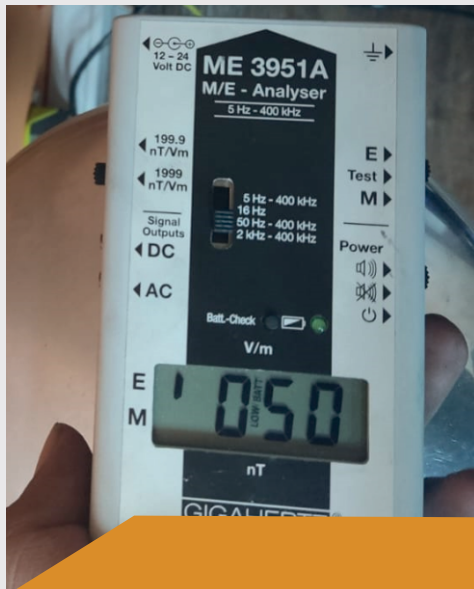


**MAGNETIC
FIELD**

MEASUREMENTS OBTAINED WITH THE NICE-SERTEC

For the measurements of electric and magnetic fields, the equipment was configured at a frequency of 50Hz and 1999 nT/Vm because the frequency of the electric power grid in Paraguay is 50Hz.

As seen in the images above, the measurements obtained with the installation of NICE-SERTEC were as follows: Electric Field: 050 V/m - Magnetic Field: 095V/m.



ELECTRIC FIELD



**MAGNETIC
FIELD**



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