

Tecsystem

Make a Safer World



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Since 1980, Tecsystem SRL – an Italian factory - has continued to develop technologies aimed at temperature control - data collection and analysis of electrical machines.

With headquarters in Italy and branches in Egypt, China and Brazil, we are positioned in strategic places around the world so we can respond promptly to every need of our local customers. We have created a network of services suitable for accompanying every user in their projects.

Our R&D department designs and implements solutions suitable for all electric machine types with the ability to operate in any application sector (railway, airport, shipping, building, construction, food, subway, alternative energy and others).

Security and reliability are our guidelines, granted by ISO 9001 certification and by specific certification related to each product.

Thanks to the progressive evolution of our temperature monitoring technologies, we are now working to create increasingly digitalized devices that interface easily and immediately with any kind of existing systems.

In this case, digitalization is a technological progress which revolutionizes the approach to parameter control and allows the operator to act remotely, planning maintenance interventions in advance (predictive / preventive maintenance).

Thanks to the dual connection method (Ethernet or Wi-Fi), our devices can be implemented in any system, immediately and without changes to the existing one.

Data flows are immediately usable and manageable in an intuitive and simple way (in some cases even from Mobile or Tablet), thanks to specially designed graphic interfaces.

CONNECTIVITY AND DATA MANAGEMENT: INDUSTRY 4.0



From the concept of simple remote control, we have moved on to a wider reality more attentive to the needs of today and tomorrow: supplying information according to a standard valid for all models, using the most widespread communication protocols and technologies (Modbus, Ethernet, WiFi). This allows for the implementation of results and data coming from centralized processing and analytic systems.

In this way the User, **using the wide range of data in a predictive way**, can work to improve the basic concepts of **Reliability, Maintenance and Efficiency**.

At Tecsystem, we are able to keep abreast of the times, and we have developed two product lines which meet the new needs:

- **ETH(ernet) LINE:** equipped **with Ethernet output with Modbus TCP/IP protocol** - to display, program and collect temperature parameters. Suitable for systems where wired networks for the acquisition and remote control of information are available: it is a widely used technology for industrial networks.

Among this LINE we present the **T1048 ETH*** which is UL certified and best features are the following:



- **IntelliFan:** to reduce the thermal shock of the transformer anticipating partially (one bar at a time) the activation of the ventilation system.

- **Voting:** this function comes from the concept of redundancy, that consists in duplication of components of a system with the intention of increasing reliability. Taking advantage of this principle, we use the probes installed on the three phases to monitor the operation of the transformer but at the same time ensure the proper functioning of the probes themselves, discriminating any false alarms

- **FailSafe:** The T1048 has n.o. selection (normally open contact)/ n.c. (normally closed contact) for alarm and trip relays. The selection of the setting n.o./ n.c. introduces functions Fail Safe and No Fail Safe.

- **Ethernet Output:** It allows you to directly implement the functionality of Tecsystem's control units in your monitoring system. The integrated module offers all the features of essential networks, including an Ethernet 10BaseT/100Base-TX, full TCP/IP stack, suited to work as a Modbus TCP slave. Web functionality can be used for remote configuration of the limits of protection, the real-time monitoring or troubleshooting.

- **WS LINE:** equipped with a simple graphic interface for displaying and analyzing the temperature information detected, as well as a small antenna for **Wi-Fi connection**, it offers the possibility of intervening for the programming and configuration of the system, without having to install dedicated Apps or Software, **on any Internet Browser**.

New "SMART" products for a market even more attentive to an energy wastage both in the environment and resources, as well as being sensitive to a now necessary concept such as **predictive maintenance!**

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Tecsystem, make a Safer World!