



Customer Success Story

Microwave Electronics India.

Manufacturing in Process



Microwave Electronics Department

GraphWorX™64, AlarmWorX™64 and TrendWorX™64 are all used in hardening of ceramic at different temperature in electric furnace application. This is a complete solution deployed By System Integrator “Temflo system Pvt Ltd”.

Using GraphWorX64, operators can see a graphical representation of what is happening inside the Furnace. They can control the temperature of furnace control the opening and closing of the valves of nitrogen, oxygen, water and circulation fan and see the remaining time left before pouring ferrite.

AlarmWorX64 is used for all alarms needing at- tension during the heating and melting stages and valve opening and closing. The TrendWorX64 component allows operators to view real-time trends of the process at all stages. Data tags can be dragged and dropped into a trending area during runtime for real time trending.

❖ Project Summary

The Electric furnace system, based on GENESIS64, was implemented by Temflo system Pvt Ltd. Analyzer, thermocouple, Motorized and solenoid valve are connected to the ASCON sigma Pac PLC. This PLC then inter- faces to GENESIS64 for operators to monitor and control the Heating process.

❖ About Microwave Electronics

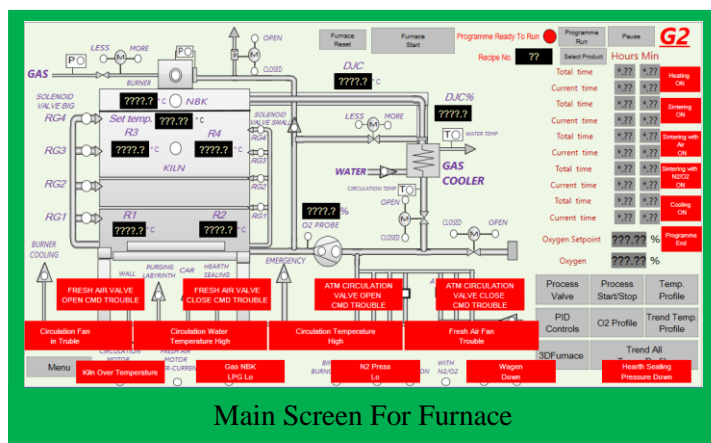
Microwave Electronics is one of the very few departments, worldwide, that has pioneered the production of the ferrite phase shifters for C- and X- bands. It manufactures Electronic Scanning Phased Array Antenna Systems.

It also design and development of ferrite based components for microwave applications.

❖ ICONICS Software Deployed.

GENESIS64™ Enterprise edition is the HMI/SCADA solution which is installed in Microwave electronics department.

The GENESIS64 application is also communicating via Modbus OPC to ASCON sigma Pac PLC. One of the requirements for this application was to be able to handle connectivity to all the above-mentioned devices from a single Windows-based server.

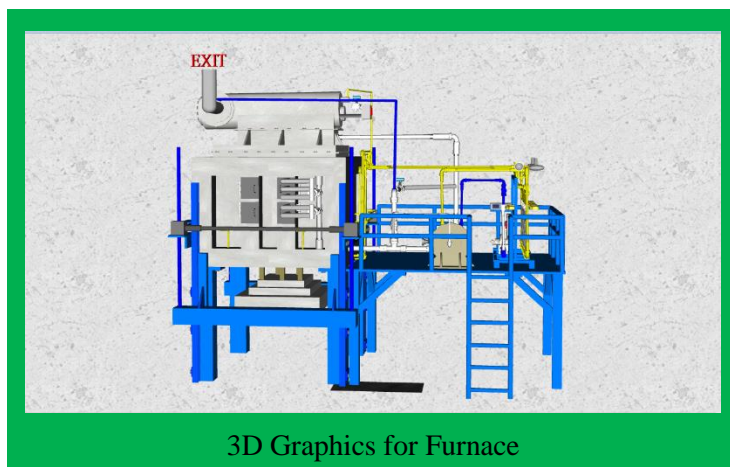


❖ Key Features

- The hardening of ceramic in electric furnace system is an SCADA solution for MED.
- This is quick-to-learn and easy-to-use product based on Modbus OPC, is a controller (PLC) dependent system.
- The system provides the monitoring and controlling of electric furnace.
- The product is configured to individual MED requirements and operations.
- It can connect to temperature measurement devices, analyzer, thermocouple, and Motorized and solenoid valve and offers a variety of operational reports.

❖ Benefits of the System

Microwave Electronics Department was able to get their electric furnace monitor, controlling the Temperature and valve quickly.



❖ Conclusion

Using ICONICS software, the Microwave electronics department was able to sync their SCADA application with electric furnace in such a way that they were able to function under one system and remotely monitor facilities while still being in touch with real-time data and alarms.

Solutions Highlighted

GENESIS64™

New generation of Web-Based HMI/SCADA Software