

# **EcoStruxure Control Engineering - Monitoring**

Unplanned downtime is an issue that all manufacturers hope to avoid as it can quickly become expensive due to loss of productivity. When downtime does occur, plant maintenance staff need quick access to accurate system information in order to be able to diagnose and resolve the problem without losing too much time.

EcoStruxure Control Engineering - Monitoring is a real-time diagnostics solution to support troubleshooting of PLC-based control systems. The solution retrieves the live variable values from the system and displays them on a simplified representation of the control programs, to help understand the current state of a system more quickly and easily.

# **Benefits**

Facilitate troubleshooting of your control systems

**Reduce unplanned downtime** with the support of a clear representation of your system's data flow and the live variable values.

**Increase the autonomy of operational teams** by giving them a tool that makes it easier to understand the system without having to look at the code itself.





#### How it works?

EcoStruxure Control Engineering - Monitoring is a cloud-based application accessible through a web browser. It is an agnostic tool compatible with all major PLC vendors.

To deploy EcoStruxure Control Engineering - Monitoring, two components are required:

- 1. The PLC program data The latest version of the program needs to be imported, either manually by the user or automatically from a version management system, so that the tool can generate the simple data flow interface that is coherent with the current version in production.
- 2. Communications set up To enable the real-time communication from the PLCs to the tool, it is necessary to set up either a communication server with OPC DA or direct communication with Modbus TCP.

Once these are in place, the live diagnostics can be launched in one-click from the web platform.

### **Benefits**

Improve the efficiency of your troubleshooting response

No need for any code instrumentation or to pre-define fault cases, the tool will show the live values of all variables.

The live diagnostics can be **accessed remotely** for quicker troubleshooting support from the process expert or service provider.

The tool can be **integrated with existing production tools**, such as SCADA, version management systems, and communication servers for greater efficiency.

# Facilitate troubleshooting with EcoStruxure Control Engineering - Monitoring Start with your chosen Launch the live variable and dynamically diagnostics in navigate through the data one click flow of your application Information about the selected variable Name, memory reference, Live variable values type, and comment Boolean values represented in green (TRUE) and red (FALSE). Strings and integers displayed in text bubble. Cross references of selected variable Displayed in ladder or literal

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