Wi-Fi Fault Generator Box

Description

The "Wi-Fi Fault Generator" allows the creation of faults on the machine on which it is installed.

Created for educational purposes, it facilitates the **creation of faults in a simple and quick way in** order to enable fault finding and diagnosis.
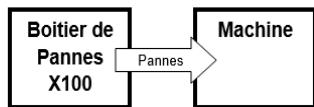
Its format allows it to be integrated into all kinds of machines where it is interesting to create failures, whether they are manufactured by ERM or not.

How it works

A Wi-Fi connection to the fault generator is made with a device such as a PC, a smartphone or a tablet. This connection then allows, via a **dedicated web interface accessible with the IP address of the box** and a search engine, to control the implementation, or not, of faults on the system.

It is possible to create both a **simple fault** and a **fault with a time delay**, either time-limited **or intermittent**. These failures can be either outages or short circuits, which cause faults on the system where the box is installed.

5 faults are available by default on the box in the case of an installation on a machine manufactured by ERM but it is possible to add 3 more as an option.

Control interface

The control interface is a **web page specific to each unit**, accessible from PCs, smartphones and tablets, which allows the control of the unit by selecting the fault(s) to be performed on the system.

It has all the necessary buttons to choose to perform up to 8 failures (of which 5 are programmed by default) with 4 different types of delays (1: simple failure without delay, 2: delayed failure, 3: fixed duration failure or 4: intermittent failure).

Installation

The box is installed directly by ERM on the requested machine if it is ordered at the same time as the box.
For an installation on a machine sold by ERM already in your procession or on a machine not manufactured by ERM, the components are supplied, as well as the assembly instructions in the case of an ERM machine, for an installation made by you.

Features

- ✓ **Dimensions:** 291 x 241 x 128 mm (L × W × D).
- ✓ **Weight:** 2 kg
- ✓ **Electrical energy:** 230 V Phase + Neutral + Earth.
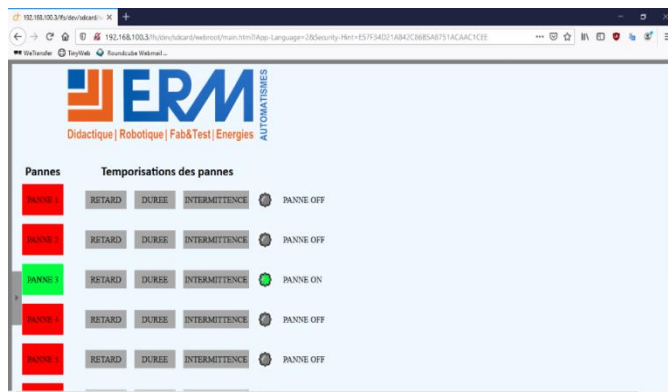
Main theme
Industrial Maintenance

Contents of the case

The box is equipped with the Siemens LOGO! 8 PLC for control and the Wi-Fi router and access point for connection.

It also contains a modular plug, a ground terminal and a fuse holder to protect the enclosure components.

It is supplied with rail adapters and spacers if required for non-ERM installation.

The controller is programmed with the software LOGO! Soft Comfort and LOGO! Web Editor from Siemens.

Highlights

- Adaptable to any type of machine.
- Possibility to create a large number of different faults.
- Wireless fault monitoring via dedicated web interface.
- Possibility to set the time delays of the failures, thanks to the dedicated interface.
- **Fault finding and diagnosis activities.**

Reference

UC90 : Wi-Fi Controllable Fault Generator

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