

# FluctuS Cloud

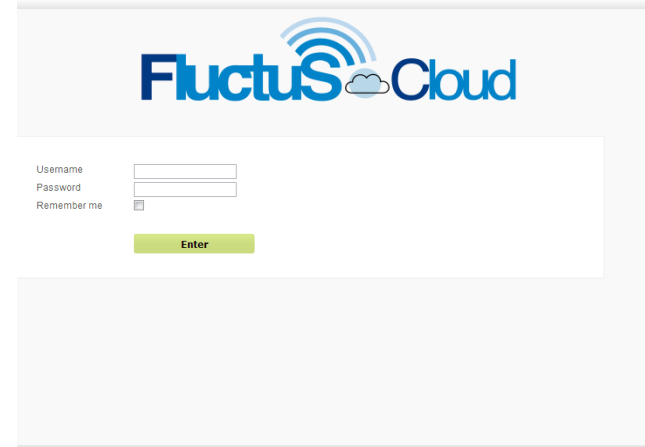




The FluctuS Cloud is a **cloud platform** for **monitoring, managing** and provisioning the *FluctuS Sensor Networks*.

It:

- Collects information from each FluctuS Mother Board and organizes all the related activities through a **programmable workflow** .
- Provides a **remote access** via web interface after authentication with username and password given at the time of purchase.
- Offers **maximum reliability** as hosted in the **cloud infrastructure owned by third parties (Amazon)**.

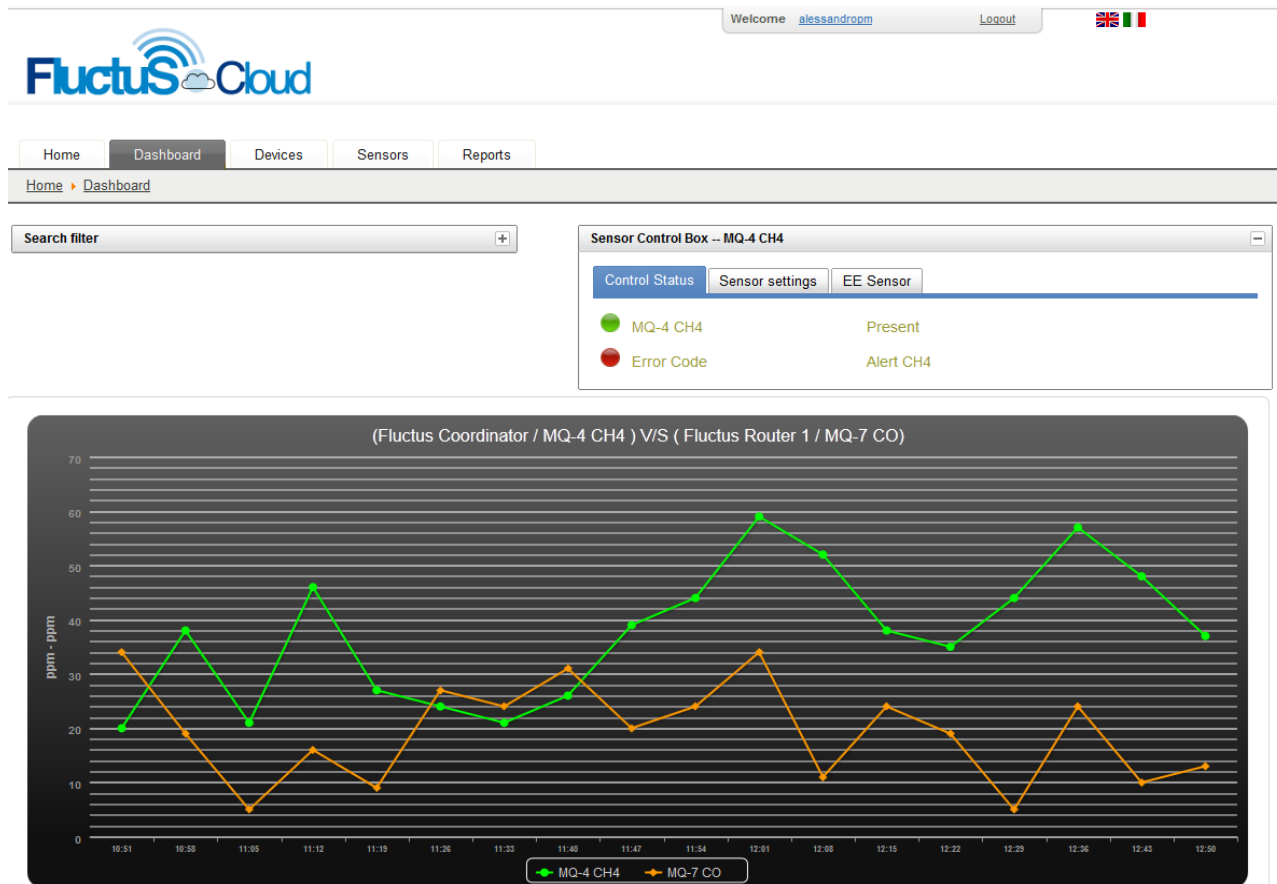


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It don't needs any **local hardware / software installation** , any specific technological know-how, with the result of speeding up and considerable **reduction of time and costs** for the start-up phase of a project.

# FluctuS Cloud-Real Time

Fluctus Cloud Dashboard allows the graphic visualization of Fluctus sensors survey in **real-time** and the **graphic comparison** between different sensors. The *Sensors Control Box* allows the visualization of sensors settings and the control of possible issues through alert messages.



# FluctuS Cloud-Hardware Status



Hardware Control Box -- Fluctus Router 1

Battery Status | Digital input control | Digital output control | **Device control**

### Real-Time Clock

Stato Clock	OK	<input type="button" value="On read"/>	<input type="button" value="Set Clock"/>
Clock event	---		
Last clock read	2013-06-13 12:41:06		

### RF Module

WAN Type	---
RF module type	Zig Router

### Accelerometer

Accelerometer status	OK
Accelerometer event	OK

### Eeprom

Eeprom File 1 status	OK
Eeprom File 2 status	Errore
Eeprom Parameter status	OK
EEprom Exp board status	OK

FluctuS Cloud *Hardware Control Box* allows the real-time check of FluctuS **peripherals status**, battery monitoring, reading and setting of Real Time Clock, **control of digital inputs and outputs**.

The *Digital Output Control* allows the user to send commands to the FluctuS device, in order to change digital output status.

The screenshot displays the FluctuS Cloud-Hardware web interface. At the top, there is a navigation bar with the FluctuS Cloud logo on the left and user information on the right: "Welcome [alessandro](#)" and a "Logout" button. Below the navigation bar is a menu with tabs for "Home", "Dashboard", "Devices", "Sensors", and "Reports". The "Dashboard" tab is currently selected.

Below the menu, there is a breadcrumb trail: "Home > Dashboard".

The main content area is divided into two panels. The left panel is titled "Search filter" and contains three dropdown menus: "Cluster" (set to "Virtual Client Fluctus"), "Device" (set to "Fluctus Router 1"), and "Report Type" (set to "Hardware"). A "GO" button is located below these filters.

The right panel is titled "Hardware Control Box -- Fluctus Router 1" and contains four tabs: "Battery Status", "Digital input control", "Digital output control", and "Device control". The "Digital output control" tab is currently selected.

Under the "Digital output control" tab, there is a table of digital outputs with their current status and control buttons:

Output	Status	Control
OUT-0 Actuator 1	ON	OFF
OUT-1 Actuator 2	ON	OFF
OUT-2 DC Motor 1	ON	To OFF
OUT-3 DC Motor 2	ON	OFF
OUT-4 Pin Out 4	ON	OFF
OUT-5	OFF	ON
OUT-6	OFF	ON
OUT-7	OFF	ON

At the bottom of the right panel, there is an "Action Reset" button.

# FluctuS Cloud-Reports

FluctuS Cloud Reports allows **simple graphic analysis (with alert and alarm thresholds)** of stored data and compares them with **various temporal ranges** and with preset thresholds, it also **permits data export** in standard format (Excel).

