



## Editorial

Hello,

FLUDIA Newsletter is (finally!) back with quite a few topics: the French decree of April 10 (Tertiary Decree), a new infrared sensor for Smart Meters, a new version of the admin console, detection of new residential devices thanks to non-intrusive algorithms, and Fludia's participation in the last E-World exhibition. Happy reading!



### Fludia Team remains operational

The health crisis strongly affects our daily life. Containment and movement limitation measures have had a major impact on businesses. Fludia does everything possible to minimize the consequences and continues to provide the products and support you need. In these difficult times for all, our team remains operational and available, do not hesitate to contact us by email or phone. In the meantime, take care of yourself and your loved ones!

Sincerely Yours, Marc Bons and the team at Fludia.



### A « Tertiary Decree » that becomes very concrete

The Tertiary Decree defined the main objectives **for reducing energy consumption for buildings in the French tertiary real estate** sector (office and commercial buildings) at the end of 2019. In addition to this decree, new details have been published on **April 10, 2020** specifying the terms of application.

In particular, the energy reduction objective (-40% in 2030) now distinguishes 2 components:

- thermal / ventilation usage (eg heating, air conditioning)
- other end-uses related to specific activity or general functions (Water Heating, lighting, etc.)

There is also a deadline for officially registering all required information about the buildings : September 2021.



### But how to elaborate a reduction action plan without first assessing the level of consumption for the main end-uses?



This is a real problem for many owners / tenants who only have general billing info or at best 30-minute curves.

As an inexpensive and immediate solution, the **1mn remote data collection sensor (FM410 GPRS)** is particularly useful. It facilitates the detection of high consumption devices thanks to high resolution measurement making it possible to identify significant events. After analysis, the consumption levels of the main uses can therefore be identified and the **reduction potential estimated**.



## A new sensor for Smart Meters

Fludia is continually expanding its consumption monitoring offer for small and medium-sized buildings ... Fludia now offers a sensor suitable **for reading information delivered by an infrared communication port.**

This **FM432ir sensor** reads the infrared frames delivered by the meter, detects the relevant information and transmits them at regular intervals in **LoRaWAN messages.**

This sensor can be adapted to different data configurations (power, energy...) implemented in meters by energy distributors in Europe. It is compatible with **mME (Modern Messeinrichtung) meters** deployed in Germany. It is also compatible with old Ferraris (electromechanical) meters, so that even heterogenous meter pools can be dealt with.

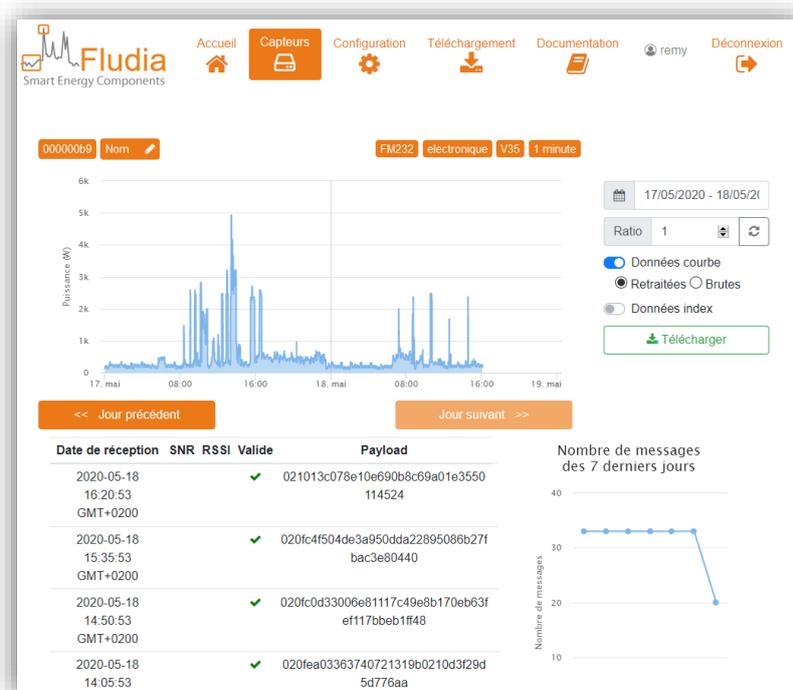


## A new version of the admin console

The administration console made available with Fludia sensors has just been redesigned. Significant changes have been made in recent months to provide **a better user experience** and better management of your fleet of sensors. A quick overview of the main changes:

- a faster interface
- an easier search in the list of sensors (by name / serial number / type / ...)
- a single page for viewing the curve and the list of corresponding frames
- the possibility of integrating the counter ratio
- more easily accessible documentation

### New Admin Console V2

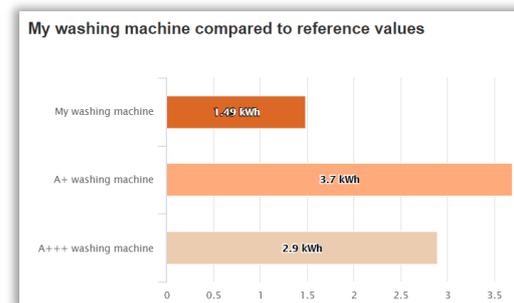
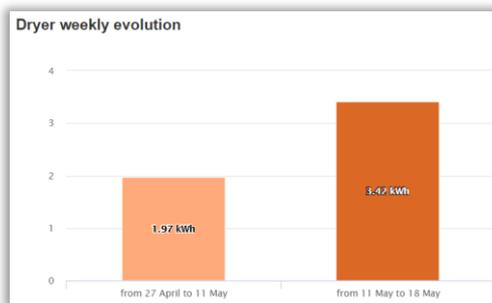
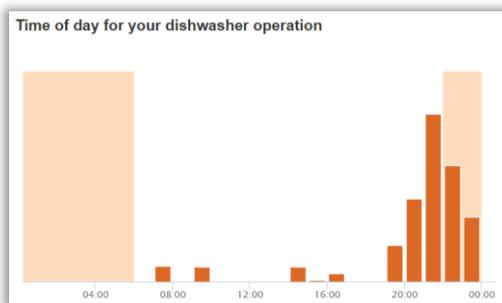




## Detection of washing machines, dishwashers, dryers

As part of our R&D activity oriented towards the exploitation of high resolution load curves (1min intervals and lower), **new “tips”** have been developed for specific residential appliances. Thanks to deep learning algorithms, developed and refined over the past 18 months, **the signatures of "washing" equipments** have been detected with a satisfactory level of reliability.

We have been able to enrich the list of "tips" with content related to **consumption evolution** or **time of day** for the washing machine, the dryer and the dishwasher. As a result, it provides service providers with a great opportunity to create a relevant and personalized user experience.



## Back to E-World

Last February Fludia participated in the **E-world energy & water exhibition** in Essen, Germany. This unmissable event in the energy sector was the occasion for many exchanges but also the opportunity to present our product line and our new sensor compatible with both Ferraris meters and mME meters.



During this event we also participated in a panel discussion as part of the **Fresh & Friends Summit** event organized by **Fresh Energy**. Fludia, Bosch, Easymeter, Hager, Lemonbeat, Powercloud, Power Plus Communications PPC and VDE discussed the subject of Smart Metering in the German context.

The show was also an opportunity to create a fun game based on the technology developed by Fludia. This game, called « **Whack-a-Watt** » encourages players to turn off as quickly as possible four LEDs that light up randomly. The development challenge for the team was to make each LED + button module autonomous using an FM232 LoRa product and to orchestrate everything from a F-Link micro-gateway /bridge (rapid exchange of data in LoRa with the 4 modules and generation of a dynamic web page accessible via WiFi).



Please do not hesitate to send us your comments for the next edition. Looking forward to hearing from you.  
The FLUDIA team.

