Edito

Hello everyone,
The FLUDIA Newsletter is back!
In this issue: compatibility of our sensors with water meters, the expansion of the tagawatt range, new product updates and features, a reminder about the complementarity between LoRaWAN and NB-IoT/LTE-M, and our participation in the IBS 2025 trade show. Happy reading!

Compatibility of our sensors with water meters

The LoRaWAN FM432g-n sensor (and its NB-IoT/LTE-M version, FM442g) works using optical reading technology: it tracks **the rotations of a digit on the mechanical display** of a gas meter. This reading makes it possible to detect the number of digit rotations and deduce the index evolution. In some cases, this method can also be applied to water meters equipped with a mechanical display. Here are some practical examples showing when the FM432g is compatible… and when it is not:

Example 1


Example 2


Example 3

- Example 1: there is enough space to place the sensor, and the index has decimals. The sensor can be positioned in front of the second-to-last decimal.
- Example 2: there is enough space to place the sensor, but the index does not include decimals. If the average flow rate is high enough, the sensor can be placed in front of the tens of m³ digit. Otherwise, it can be positioned in front of one of the needles.
- Example 3: the space available to place the sensor is too small.

Unsure about compatibility of our sensor with a water meter? Feel free to send us a photo!

New product: the tagawatt range expands

tagawatt

As a reminder, the **tagawatt** sub-metering solution makes it **easy and fast to install** numerous active power measurement points - **without any power cut**.

To allow measurement on large-section conductors, Fludia has designed the brand-new **wattag_XL**, which completes the wattag_S and wattag_M models. Its inner diameter is much larger (40 mm), while keeping exterior dimensions as compact as possible (75x64 mm) and impressively thin (8 mm). This makes it suitable for tight environments, and it can be integrated into a standard tagawatt chain with other wattags and voltags.

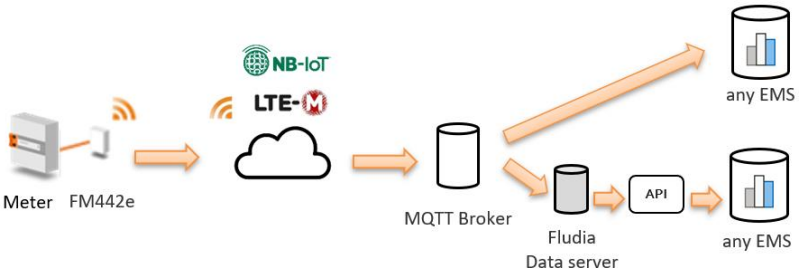
Product evolution: the FM432e-i sensor

Some meters have an infrared metrological diode instead of the usual visible one. We have therefore created a new version to address this need: the **LoRaWAN FM432e-i sensor**. No surprises - it looks exactly like the FM432e in terms of design, functionality, and specifications.

It is also available in the FM442e-i NB-IoT/LTE-M version.

Focus: FM442 data recovery modes

To retrieve the data collected by our FM442 NB-IoT/LTE-M sensors, several options are available:



- API: https://fm442.fludia.com/api
- MQTT Broker access: mqtts://fm442.fludia.com:1884
- Configuration for sending data to a third-party broker

Contact us to set up the recovery method that best suits your needs: support@fludia.com

Reminder: LoRaWAN and NB-IoT/LTE-M complementarity

LoRaWAN or NB-IoT? This is a frequent question for integrators and energy service providers. At Fludia, we usually answer: “both!”

That’s why we extended our range of optical sensors for electricity and gas meters by adding NB-IoT / LTE-M versions (FM442). And with the plug&play Tagawatt sub-metering solution, we went even further—by integrating both LoRaWAN and NB-IoT/LTE-M into the same product.

More generally, we believe combining both technologies is often the best operational answer to reduce costs and project risks.

As a reminder, we recently covered this topic in this short PDF: https://www.fludia.com/lorawan-or-nb-iot/

Note: A more detailed white paper will be available soon - stay tuned!

Fludia at the next IBS trade fair

As a reminder, IBS (Intelligent Building Systems) will take place on September 30 and October 1!

Come visit us at the Fludia booth (A3) and let’s talk **about your IoT energy monitoring projects**.

Location: Porte de Versailles (Pavilion 2.2)

Get your free badge now: https://www.ibs-event.com/visiter.php