

the specialist that looks after your reagents and samples — and tells you if the **generator didn't start, 24/7.**

AstreaIoT watches your reagent and sample refrigerators, your ultra-low freezer, your analysis area and your backup power —every 5 minutes—, **alerts you before you lose the irrecoverable** and builds the NOM-007-SSA3 log. Your **money**, your **control** and your **compliance**, without hiring anyone else.

WE DON'T JUST MEASURE A specialist **learns the cycle** of each unit —ignores the normal defrost, alerts the real failure— and, in a power cut, tells you whether the **generator started or not**. Over WhatsApp.

THREE THINGS IT LOOKS AFTER FOR YOU

● MONEY

you don't lose the irrecoverable

An ultra-low freezer (-80°C) holds months of samples and **reference strains that can't be replaced**. A reagent refrigerator is worth \$50K+. An overnight failure destroys it — we catch it first.

a single sample you don't lose is priceless.

● CONTROL

you know what to attend to first

Every refrigerator, freezer and the analysis area on one panel. And the thing that matters most in a power cut: **we tell you whether the emergency generator started** — because it doesn't always.

from the overnight scare, to control.

● COMPLIANCE

ready for the nom-007 inspection

Continuous per-unit logging, no gaps, with chain of custody. The **NOM-007 and the RPBI (NOM-087)** logs, ready — without building them by hand the night before.

we don't certify: we hand you the proof, with your name on it.

this is how we look after your laboratory, **from the inside.**

Each number is a point where a wireless sensor works for you — and the specialist tells you what to do. **You install only the ones that apply to your laboratory.** The color says what each one protects:

● **money** — you stop losing ● **control** — you know what to do ● **compliance** — the proof ready



- 1** **ultra-low freezer (-80°C) ★**
we alert you before you lose irrecoverable samples and strains
- 2** **reagent refrigerator (2-8°C)**
we alert you to the failure before you discard the most expensive reagent
- 3** **sample refrigerator**
we alert you in time, before you lose patient samples
- 4** **culture media**
we alert you if temperature compromises the media's viability
- 5** **reagent freezer (-20°C)**
we alert you before a thaw that forces a discard
- 6** **analysis area**
we alert you if the environment drifts out of 18-25°C and skews results
- 7** **emergency generator**
we tell you if the generator did NOT start in the power cut
- 8** **RPBI refrigerator**
we log the waste temperature for your NOM-087 record

★ **the specialist learns and crosses signals.** In the **ultra-low freezer (1)** it crosses door x temperature (" -72°C and rising, every minute counts") and ignores the normal defrost. And when the power goes, the **generator current (7)** betrays whether it did **NOT** start —before the cold runs out—. It all feeds your **NOM-007-SSA3 log.**

THE RETURN

one sample run or one reagent you don't lose **usually pays for the year.**

\$50K+ of inventory

what a reagent refrigerator is worth — **not counting the irrecoverable samples**

for every \$1 you invest

you protect **reagents, samples** and re-run hours avoided

- **MONEY** cold protected — reagents, samples and strains that aren't discarded
- **CONTROL** you know whether the generator started; fewer overnight scares
- **COMPLIANCE** no NOM-007 findings — continuous evidence with chain of custody

WHY IT WORKS

The system **learns each unit's cycle** in the first week: the normal defrost rises 2-4°C and returns (no alert); a real failure rises and **doesn't return** (critical alert). It's not a fixed threshold: it's your own equipment's pattern.

WHY ASTREAIOT

We tell you what to do, not just data.

Clear priority and a specialist's read — not a dashboard you have to decode.

It learns each unit's cycle.

Ignores the normal defrost, alerts the real failure — without false alarms.

It tells you if the generator didn't start.

The gateway keeps watching on battery during the outage — that's why it can alert you.

WhatsApp alerts.

No new apps — to the phone of the responsible sanitary officer.

ready to **not lose** an irrecoverable sample?

Start with **one laboratory**: a no-commitment pilot — you see the numbers in your own operation before scaling to the whole network.

Book your pilot or request a quote — no commitment.

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