PRODUCT BRIEF

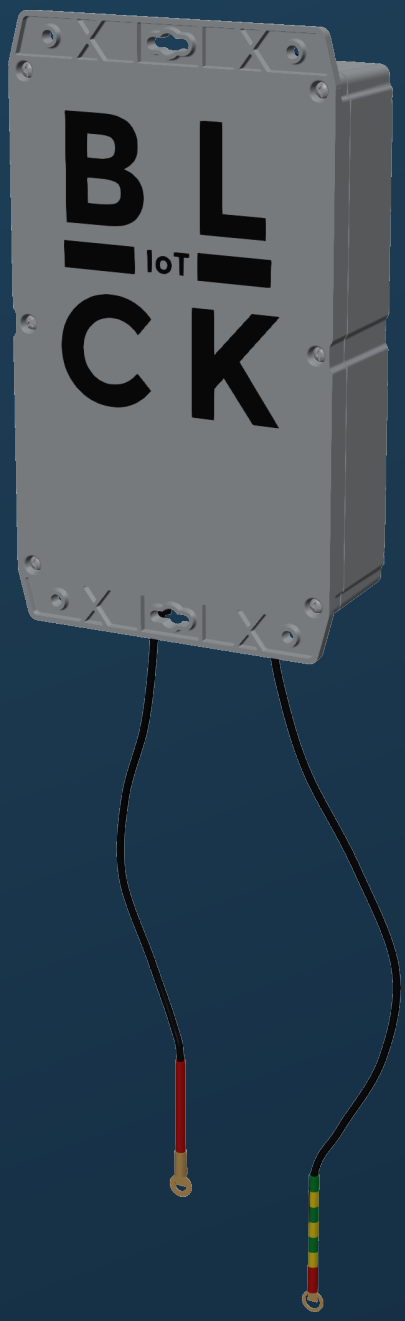
BLCK-IoT.com

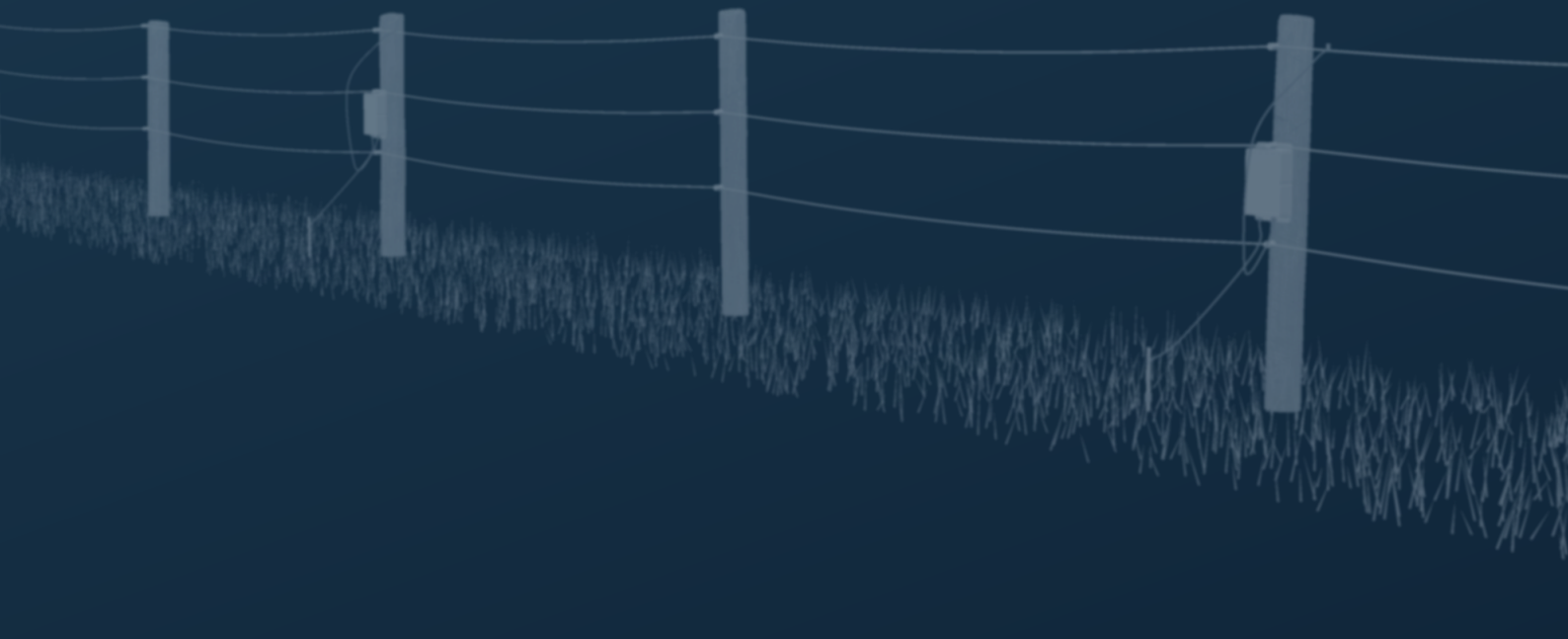
BLCK PrMt

Electric Fence Monitor

Know your electric fence is live along its whole length, without walking the line.

LoRaWAN | Solar powered | Any energiser



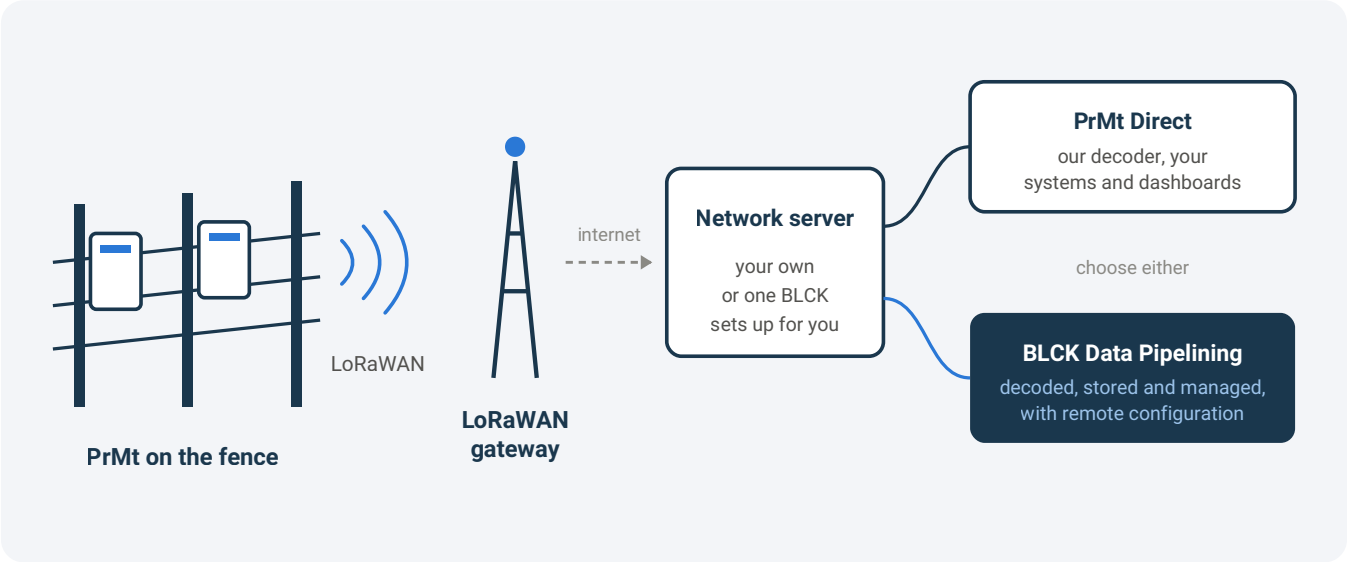


About BLCK PrMt

BLCK PrMt is a solar-powered monitor for electric fences. It clips onto the fence at any post, reads every pulse the energiser sends and reports the condition of the fence over LoRaWAN, so you know your fence is doing its job without patrolling it.

PrMt works with any energiser and on any standard LoRaWAN network. Run it yourself with our message decoder, or let BLCK run the data side for you, including remote configuration of every unit in the field.

How it fits together



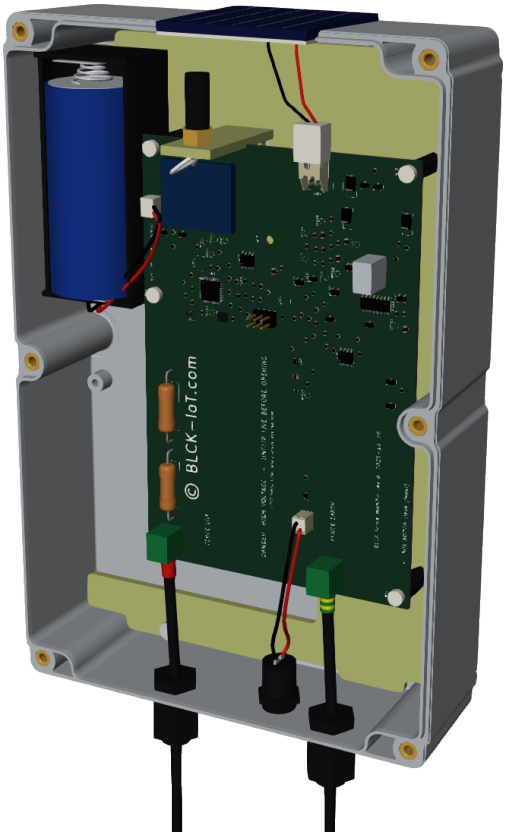
Where PrMt is used

- Wildlife conservancies and reserves
- Livestock farms and ranches
- Crop protection
- Human and wildlife conflict barriers
- Commercial and industrial perimeters
- Homes and estates

Features

Every pulse, measured

Reads each pulse the energiser sends, not an occasional spot check.



Solar powered

The built-in panel keeps PrMt running through multiple days without sun.

Any energiser, any fence

Works with every energiser brand, on single or multi-strand fences up to 15 kV.

Low maintenance

The battery should not need replacing for over a year.

Clear event reports

A separate report when the fence goes down, the voltage runs too high, the earth lead comes off or the battery runs low.

USB-C quick start

Charge before installing for an instant start, or top up after a long spell of cloud.

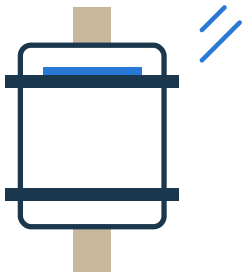
Nothing lost

Keeps several days of readings on board and resends anything the network missed.

Long range, no SIM

LoRaWAN reaches gateways kilometres away. No mobile signal or SIM card needed.

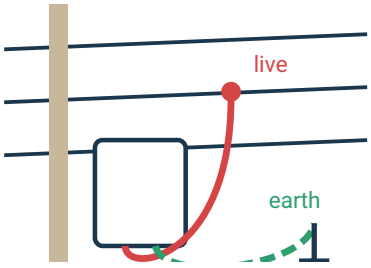
Up and running in three steps



STEP 1

Mount

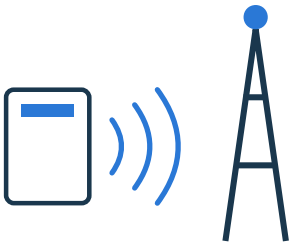
Strap PrMt to any fence post. No drilling, no mains power.



STEP 2

Connect

Clip the red lead to a live wire and the green and yellow lead to earth.



STEP 3

Report

PrMt joins the LoRaWAN network and reports the state of the fence every few minutes.

What PrMt tells you

Routine report

Every 5 minutes, adjustable

- Fence voltage: lowest, highest and average
- Number of pulses
- Battery level
- Temperature

Event reports

Sent when something changes

- Fence down
- Voltage too high
- Earth lead disconnected
- Battery low
- Device restarted

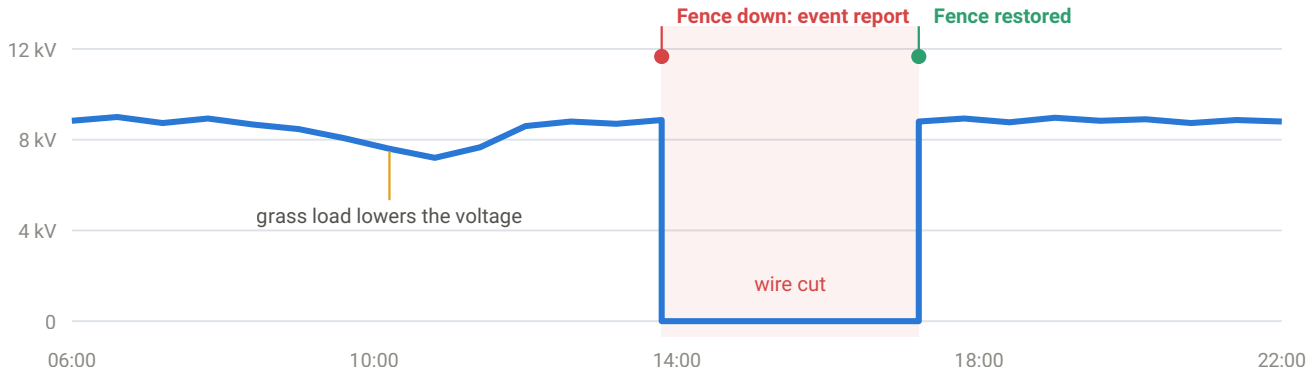
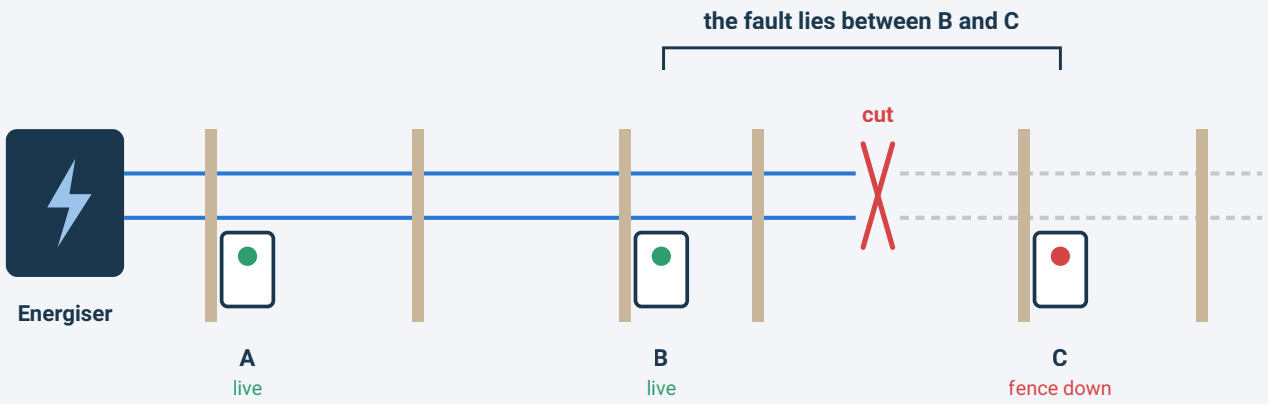


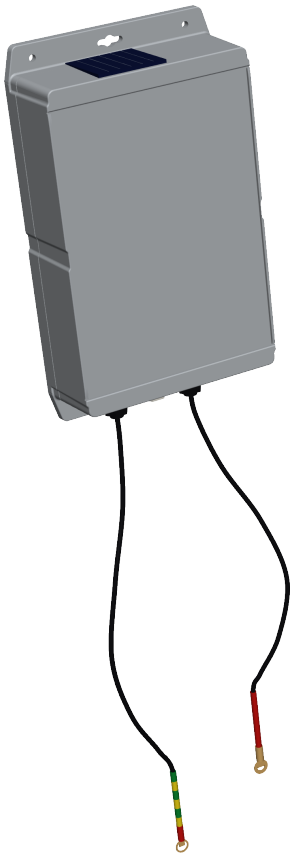
Illustration: one day of fence voltage as PrMt reports it.

Placing PrMt along the fence

One PrMt per fence zone tells you whether that zone is live. Add more along a long fence and the readings also show where a problem lies: units beyond a cut report the fence down while those before it still read normal, so the fault sits between the two.



Built for the fence line



Weatherproof

A sealed, UV-stable enclosure made for outdoor life in sun, rain and dust.

Quick to fit

Straps to a post through its mounting flanges. Fence and earth leads are supplied.

Its own power

Solar panel and rechargeable battery on board, so it can sit anywhere along the fence.

Early warning

A falling voltage shows vegetation or a weak earth before the fence stops working.

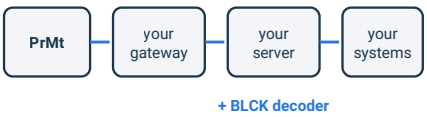
Two ways to run PrMt

PrMt works on its own: it speaks standard LoRaWAN and comes with a documented message decoder. If you would rather not run the data side yourself, BLCK can do it for you.

OPTION 1

PrMt Direct

Your network, your data



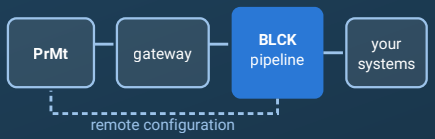
PrMt units with our message decoder and documentation. Connect them to your own LoRaWAN network and feed the readings into the systems you already use. Runs entirely without BLCK.

- ✓ PrMt units, leads and mounting straps
- ✓ Message decoder for your network server
- ✓ Message and settings documentation

OPTION 2

PrMt + BLCK Data Pipelining

We run the data side



BLCK connects your units, decodes and stores every reading, and gives your team a web platform and API to work with clean fence data instead of raw radio messages.

- ✓ Everything in PrMt Direct
- ✓ Units connected and onboarded for you
- ✓ Every reading decoded, checked and stored

What BLCK Data Pipelining adds

Web dashboard

Live readings and history charts for every unit, in any browser.

Readings and export

Full readings tables, exported to CSV or JSON for any date range.

Open API

Pull fence data into your own systems with secure, per-user API keys.

Accounts and access

Bring in your team and choose who sees which units.

Remote configuration

Change reporting, run a self-test or restart a unit without a site visit.

Fleet health

Battery and device status watched across every unit.

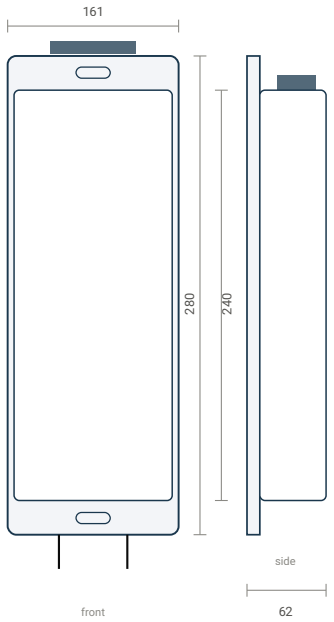
	PrMt Direct	PrMt + BLCK Data Pipelining
Works on any standard LoRaWAN network	✓	✓
Message decoder and documentation	✓	✓
Web dashboard, export and API	–	✓
Team accounts and access control	–	✓
Remote configuration and fleet health	–	✓

Specifications

GENERAL	
Product	BLCK PrMt Electric Fence Monitor
Energiser	Any brand; single or multi-strand fences
MEASUREMENT	
Fence voltage	Up to 15 kV, either pulse polarity; higher voltages flagged
Sampling	Every pulse
Routine report	Lowest, highest and average fence voltage; pulse count; battery level; temperature
Reporting interval	Every 5 minutes, adjustable
Event reports	Fence down, voltage too high, earth lead disconnected, battery low, device restarted
WIRELESS	
Network	LoRaWAN, EU868 frequency plan
Delivery	Confirmed messages; missed data resent automatically
Range	Kilometres to a gateway, depending on terrain
POWER	
Supply	Built-in solar panel and rechargeable battery
USB-C	Quick-charge start-up and top-up
Without sun	Runs through multiple days of cloud
Battery replacement	Not expected for over a year
DATA	
On-board memory	Several days of readings and event history
Remote configuration	With BLCK Data Pipelining
Dashboard, export, API	With BLCK Data Pipelining
MECHANICAL	
Dimensions	240 × 161 × 62 mm; 280 mm with mounting flanges
Mounting	Pole straps through the flanges
Connections	Live lead and earth lead, supplied
Enclosure	Sealed, UV-stabilised polycarbonate

Specifications may change without notice.

Dimensions (mm)



Solar panel on the top end, leads leave from the bottom end. Drawing not to scale between views.



BLCK PrMt

Electric fence monitoring over LoRaWAN

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BLCK-IoT.com

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