



Greenfield Smart Collars for Sheep

24/7 health, fertility and grazing monitoring for commercial flocks



The **Greenfield Precision Livestock Farming Collar** brings individual-animal monitoring to sheep flocks. Each collar measures rumination, activity, feeding, rest and skin temperature around the clock, and the Greenfield Collars app turns those signals into early warnings on your phone — so a ewe that is going downhill is found in time, even in a large flock or on distant pasture.

THE CHALLENGE

Sheep are a prey species that instinctively hide signs of illness, and flocks are often spread across large or remote grazing areas. Lambing problems, parasites and heat stress can cost lambs and ewes before anyone notices, while checking hundreds of animals by eye is slow, labour-intensive and easy to miss.

HOW IT WORKS

1 Collar sensors

A 3-axis accelerometer and skin-temperature sensor track behaviour around the clock.

2 Wireless link

Readings travel to an on-farm gateway (up to 1 km range) every 15–20 minutes.

3 Cloud analytics

Algorithms learn each animal's normal pattern and flag deviations.

4 Farmer alerts

Health, heat and birthing alerts arrive straight on your phone.

KEY SPECIFICATIONS

Sensors

3-axis accelerometer + skin temperature

Metrics tracked

Rumination, activity, feeding, rest & heat; optional GPS location

Battery life

Up to 5 years, no recharging

Connectivity

Wireless gateway, up to 1 km range

Data refresh

New readings every 15–20 minutes

Durability

IP67 waterproof, rugged adjustable webbing strap



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USE CASES FOR SHEEP FLOCKS

Heat detection

Activity and rumination changes show when ewes are cycling, helping manage ram turnout or artificial insemination and tighten the lambing window.

Lambing alerts

Behaviour changes as lambing approaches trigger an alert, so help arrives in time for difficult births and newborn lambs get colostrum.

Early illness detection

Falling rumination and activity flag sheep going off feed before clinical signs appear, allowing earlier treatment and fewer losses.

Heat-stress management

Spot heat-stressed animals and adjust shade, water and grazing times before weight gain and fertility suffer.

Precision grazing (optional GPS)

Track flock location across large or remote pastures and use grazing and rest patterns to time moves between paddocks.

Flexible deployment

Collar the whole flock, or a representative group of ewes as a sentinel, to match the monitoring level to the value of the flock.

BENEFITS & RETURN ON INVESTMENT

- **Early illness detection** cuts vet costs and mortality by getting treatment started sooner.
- **Accurate heat detection** supports better conception rates and a tighter, more manageable lambing season.
- **Healthier flocks** deliver better weight gain, more lambs weaned and steadier production.
- **24/7 monitoring** replaces routine manual checks across large or remote grazing areas.
- **Positive ROI** that grows with flock size, with no recharging for up to 5 years per collar.

Better together: smart collars + Greenfield hydroponic fodder

Rumination and feeding data give an objective, animal-by-animal view of how your flock responds when fresh hydroponic fodder is introduced — the same data that flags illness also documents intake and digestion on a Greenfield hydroponic fodder program, including in drought or winter feeding periods.

Ready to put smart collars on your flock?

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