

ONE AgriTech Programme

Evaluation of New Technology

Technology assessed: **Barn Owl Wireless** (Nov 2025)

This is a remote monitoring and control system for grain, oilseed or potato stores. The assessment was made by a farmer who runs his medium sized arable farm on his own and has used it during the 2024 & 2025 harvests in a grain store.

Criteria	Score (1-5)	Reason for assessment
Ease of Use	5	<ul style="list-style-type: none">• Use via cloud portal on computer or smart phone app.• No wiring in shed needed due to wireless technology• Can control fans & monitor temperature & relative humidity from phone anywhere in world.
Reliability	5	<ul style="list-style-type: none">• So far so good, but only 2 yrs in use.
Value – what are the benefits?	5	<ul style="list-style-type: none">• Constant monitoring of grain & oilseed crop temperatures and the relative temperature and humidity of the store and outside.• Ability to switch on fans remotely• Ability to set up system to switch fans on & off remotely or automatically based on certain temperature/humidity parameters.• Programs available to treat/manage grain at certain moisture contents (e.g. above or below 16%,18% MC)• Saves time & hassle• Helps with early identification of problems (e.g damp grain or mites)• Allows you to store wet grain longer before needing to dry it during busy periods
Any drawbacks?		<ul style="list-style-type: none">• It's not cheap (medium sized system circa £6K)• An annual subscription is required (approx. £600/yr)• Graphs best viewed on bigger screens – computer rather than phone

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Effectiveness – delivered what anticipated?	5	<p>It has effectively delivered what was anticipated</p> <ul style="list-style-type: none"> - Peace of mind - Monitoring & Evidence for Quality Assurance - Fingertip management data & control - Improved flexibility - Saved time & hassle enabling other jobs to be done
Value for money?	5	<ul style="list-style-type: none"> • Yes – Value for money • Based on benefits and delivery of what was anticipated to save time and hassle at a medium sized one man arable farm
Overall Assessment	5	<ul style="list-style-type: none"> • Quote – "Technology at its best"