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Barn Owl Wireless Components

Barn Owl Wireless in Flat Floor Stores and Drying Floors

Flat Store Crop Temperature Sensors

A battery powered radio transmitter attached to a 2 or 3m rigid crop sensor, ideally placed at the mid-point between Pedestals or ventilation ducts. This is the best monitoring point since it is the last to be cooled when fans are operating. More sensors can be added at any time if closer spacing is required.



Ambient Sensors



Ambient sensors read air temperatures which are compared with crop readings for temperature differential control. For drying control a combined ambient temperature and RH sensor is available. Both require connection to a 240v power supply.

Barn Owl Wireless in Silo and Bin Storage

Multi-sensor Transmitter



A 240v powered multi-sensor transmitter unit, IP rated for outdoor use. Usually sited on the silo gantry or similar location, the unit will accept sensor inputs from up to 160 sensing points. Displays sensor temperatures and transmits them to the Gateway every 10 minutes. Temperatures will be displayed on the user's webpage.

Silo Sensors



A robust silo pendant with digital sensors at 2 or 3m intervals, which can be up to 60m long. The pendants are suspended from a suitable anchoring point and tethered at the base to prevent them moving during silo fill.

Of durable antistatic construction for high loads, and available certified for ATEX Zone 20/21/22, up to 8 pendants with a total of 160 sensing points can be hard wired to a single multi-sensor transmitter.

Sensor pendants are supplied fitted with heavy duty securing hook, IP rated connection housing and cable for connection to the multi-sensor transmitter.



Barn Owl Wireless in Potato Storage and Compost Production

Multi-input Wireless Sensors



A battery powered radio transmitter attached to up to 4 flexible cable or rigid crop sensors.

The sensors can be placed in potato boxes or in bulk stored potatoes. Any quantity of transmitters and sensors can be used. The flexible sensors can be any length; the rigid sensors are 2m or 3m long.

Waterproof Wireless Sensors



A battery powered radio transmitter in an IP65 rated enclosure with digital temperature display.

Shown here attached to a 2m stainless steel compost temperature probe, it can be connected to up to 3 flexible cable or rigid crop sensors.

All Barn Owl Wireless Sites

Wireless Gateway



A gsm-internet link to handle all sensors and controllers in one location. It should be located in the highest point of the store or storage site. If there are multiple buildings on the site a wireless Bridge unit is used to enhance sensor data transfer between them. The Gateway and Bridge require a 240v power supply.

Wireless Automatic Fan Controllers

From the Barn Owl Wireless webpage the user selects from drying and cooling programmes to control each fan individually. Fan overload warnings are displayed automatically on the webpage. Manual control is also possible. Wireless fan controllers are available as static units for control of up to 12 fans or portable units for up to 5 fans. Larger quantities are controlled by more control units.

Static Wireless Controllers



Static controllers with up to 12 outputs can be connected to StoreVent building air extraction fans, large crop drying fans, fan control panels or other static installations. An automatic starter is required for each fan being controlled.

Portable Wireless Controllers



Portable controllers work well with Pile-Dry Pedestal Fans. The portable board mounted unit is supplied with all plugs, sockets and automatic starters for control of up to 5 single or 3 phase fans, so avoids extensive electrical installation work. All that is required is a 32 amp power supply socket.