

# secureseal BeaconRF



## TECHNOLOGY + FLEXIBILITY

The SecureRF range comprises a range of wireless transmitters and receivers specifically designed for the logistic industry.

Engineered to incorporate the newest technology and flexibility, it offers a range of flexible sensors with self-powered transmitters and a range of receiving options for data collection.

## ADVANCED WIRELESS TRAILER MONITORING



## HOW IT WORKS

**BeaconRF** is SecureSeal System's wireless asset identifier that can be used in most logistic environments to track the comings and goings of trailers, trucks and other large assets.

The unit's powerful 868 MHz transmitter is designed for long-range communications (e.g. from the mobile asset to the gatehouse or to the tractor unit).

BeaconRF improves trailer fleet utilisation; Reduce the risk of operating trailers beyond their MOT and Service Schedule; Eliminate manual daily trailer checks – know what is in the yard and how long it has been there with a current listing of all trailers at any Depot location. The location audit trail provides a detailed history of individual trailer movements - make sure the tractor is paired correctly and leaving the depot with the correct trailer.

## BENEFITS OF THE BEACON RF

- Improved Trailer Fleet Utilisation: Trailer Alerts indicating Maintenance, Location, Security and Service requirements;
- Quick and easy to install wireless communication – no cables;
- Cost effective solution to asset identification;
- Up to seven (7) year battery life with low battery warning;
- Can be installed in harsh environments;
- Elimination of human error;
- Know what is where: Trailers at each depot, trailer connected to tractor.

## TELEMATICS COMPATIBILITY?

The BeaconRF product has evolved over years of specialist applications to provide the most accurate and reliable system of monitoring trailer location. It is **already integrated** with several telematics systems and gatehouse control systems worldwide. Unprecedented seamless data feed provides simple connection to harmonise with any telematics or existing in-cab device.

## LOCATE AND IDENTIFY YOUR ASSETS WITH BEACON RF

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## MAIN FEATURES

- Wireless 868MHz frequency
- Long range narrow band technology
- Programmable transmission rates from 1 to 15 minutes
- Transmitter housed in robust moulded logistics grade casing
- Long life lithium battery (5-7 years)
- Quick wireless installation
- Transmission distance of up to 600 metres
- Environmentally robust -25C to +55C
- Protection class IP 65



## OTHER OPTIONS IN THE RF RANGE

**DoorRF** is a wireless door sensor that transmits a data packet when the door is opened or closed.

**SealRF** detects SecureSeal security seal opening and closing and sends an RF message to any 3rd party telematics or the drive-by gatehouse check system. The data message contains the trailer identification, a covert seal number and optional alert for open or closed seal conditions.

**TempRF** is a wireless temperature sensor that transmits temperature readings wirelessly to any 3rd party telematics or the gatehouse receiver or to a stand-alone LCD display for a visual and audible alert. It operates between -25° and 55°C.

**ReceiverRF** operates on the powerful 868 MHz frequency. When connected to a vehicle's in-cab system it receives data from the wireless sensors allowing the telematics to monitor the doors, temperature, security seal, etc. The receivers are available in an array of housings and supply options for any telematics or in-cab system. Generally in-cab options are preferred in a sturdy IP casing or simply as a PCB that can be embedded directly into a bespoke device. Available with various outputs including serial, USB, relay, etc.

## TECHNICAL SPECIFICATIONS

|                    |                       |
|--------------------|-----------------------|
| Radio Frequency:   | 868MHz                |
| Transmit Interval: | 1-15 minutes          |
| Operating Range:   | up to 600 metres LoS  |
| Operating Temp:    | -25°C to +55°C        |
| Antenna:           | Internal              |
| Sealing:           | IP65 rated            |
| Battery Life:      | 5-7 years             |
| Address:           | Unique ID             |
| Lower Power Radio: | 100% EMC safe         |
| Approvals:         | ETS-300-220 compliant |