

R-IDENT

OVERVIEW

WHAT IS R-IDENT?

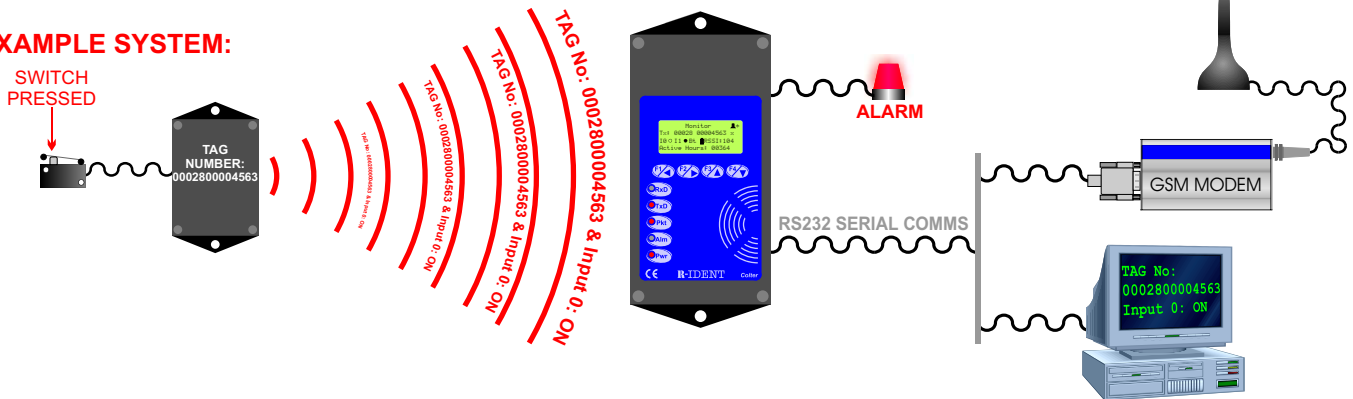
R-IDENT is a low cost, low power radio tagging system. **R-IDENT** can be used to identify and monitor objects at ranges from 0 to between 10 and 200m.

Battery powered transmitters and radio communications keep installation costs to a minimum. Monitoring of permanent and portable plant items can be achieved without the high cost of cable installations and external power supplies.

HOW DOES R-IDENT WORK?

An **R-IDENT** system consists of a number of tags ('transmitters') and readers ('receivers')

AN EXAMPLE SYSTEM:



Transmitters broadcast a signal containing a packet of information 3 times every minute. The packet consists of the transmitter's unique code number and information about its input signals. Having general purpose inputs as part of the transmitter makes **R-IDENT** ideal for remote monitoring as well as identification. Transmitters are completely sealed with a typical battery life of 8 years.

R-IDENT's unique encoding and error checking ensure that packets are received correctly even in the presence of background radio interference and multiple transmitters. **R-IDENT** uses frequencies which are licence exempt in UK and Europe..

Receivers pick up packets from all the transmitters within their range. Several models of receiver are available which handle the incoming information in different ways;

- Identify the nearest transmitter (i.e. the one with the strongest signal).
- Monitor all transmitters within range and raise an alarm if any transmitter's input signals are 'ON'.
- Relay all the received packets to a remote PC.
- Raise an alarm or generate a serial output if packets stop arriving from a transmitter.

WHAT CAN R-IDENT BE USED FOR?

R-IDENT can be used wherever an object needs to be remotely identified or monitored. Applications include:

- Identify which trailer is associated with a tractor unit.
- Notify a GSM/GPS system when a trailer has been disconnected.
- Sound a local alarm and report by GSM modem if communications are lost with a transmitter fitted to a valuable asset.
- Alert a service engineer by SMS message when vending machines require attention
- Accumulate the time an input is active for 'hours used' recording of hired plant.
- Produce a report of all vehicles within a compound.

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