

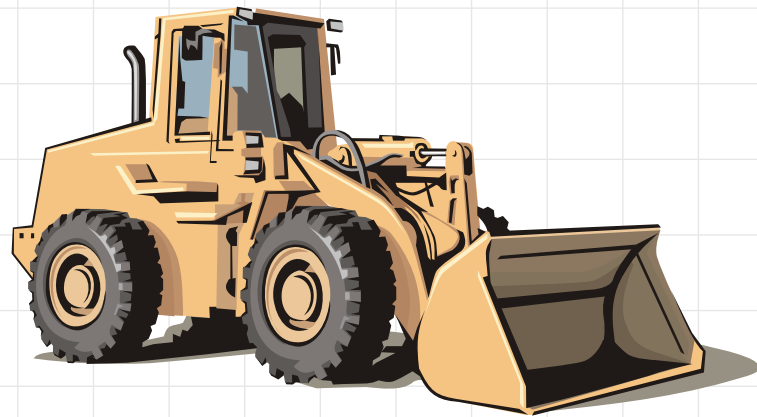
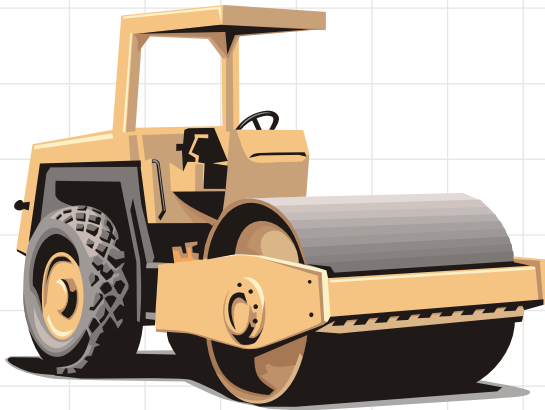
R-IDENT

Application Note #8



This application note describes how R-Ident simplifies the process of monitoring heavy plant equipment or farm equipment within a yard.

Each item of equipment is fitted with a Tx-8a R-Ident transmitter. This device is a sealed radio transmitter with a vibration sensor. The transmitter broadcasts a signal containing its unique code number once a minute unless the vibration sensor detects movement of the equipment where upon the Tx8a will transmit once a second until the vibration stops.



A Rx-2a receiver fitted to a building within the yard can read the packet of information and deduce the identity of the equipment and status. If vibration is detected a alarm within the RX2a is flagged which can switch a external siren. If the Rx2a has a GSM modem connected then a sms text message can be sent to warn of a possible break-in.

R-IDENT

R-IDENT-Tx-8a

Transmitters

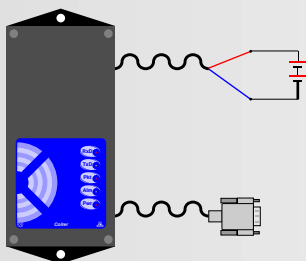


RF Characteristics
Battery life
Operating temperature
Weight
Dimensions
Ingress protection

Low power 434MHz (license exempt in the UK & Europe)
Typically 8 years, non-replaceable
-20 to +85 °C
200g
62 mm wide, 112mm high, 29 mm deep
I.P.68

R-IDENT-Rx-2a

Short range receiver



RF characteristics
Read range
Operating temperature
Weight
Dimensions
Ingress protection
Power supply
Host communications

Low power 434MHz (license exempt in the UK & Europe)
100 metres
-20 to +85 °C
400g
62 mm wide, 112mm high, 29 mm deep
I.P.68
8-40vdc (30mA @ 12vdc)
RS232
Baud rate: 9600
Parity: none
Stop bits: 1



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