

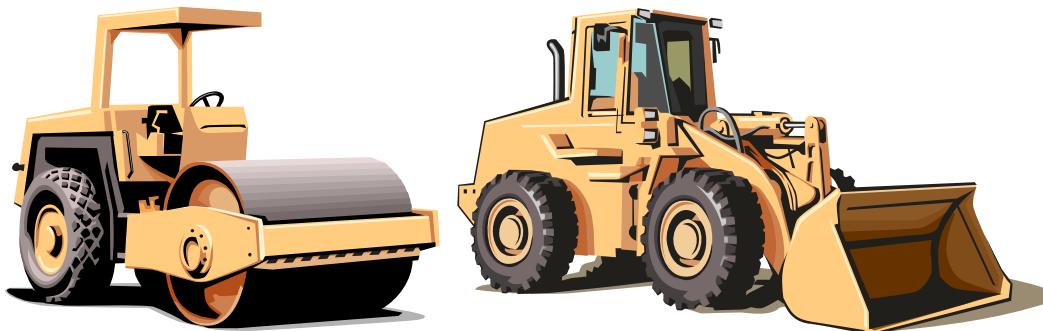
R-IDENT

APPLICATION NOTE 4

HIRED PLANT MONITORING:

This application note describes how **R-IDENT** can simplify the process of tracking hired plant and monitoring the hours of use.

Each item of equipment is fitted with a **TX3A R-IDENT** transmitter. This device is a sealed radio transmitter with an opto-isolated input which is connected to the plant's ignition such that the input is on while the equipment is being used. The transmitter broadcasts a signal containing its unique code number and the number of hours for which the input has been 'on'.



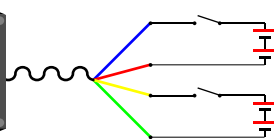
A **RX2A** receiver fitted to the collection / delivery vehicle or compound entrance gate, and (if required) an **RX2C** receiver fitted to a tracking vehicle can read the packet of information from the transmitter mounted on the hired plant and deduce the identity of the equipment and the length of time it has been operational.

If the collection / delivery vehicle is fitted with a GPS positioning system and GSM communications then the location of the delivery or collection point, the identity of the plant, and the hours used can all be sent automatically to the plant hire headquarters.

In addition if a tracking vehicle is fitted with a GPS positioning system and GSM communications then the location, identity and hours used of the hired plant can all be sent automatically to the plant hire headquarters, giving valuable information about the plant while it is still in use by the third party who have hired it.

R-IDENT TX3A

2 opto-isolated 8-32Vdc inputs via 2m flying leads

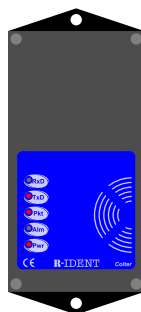


RF Characteristics:
Battery Life:
Operating Temperature:
Weight:
Dimensions:
Ingress Protection:

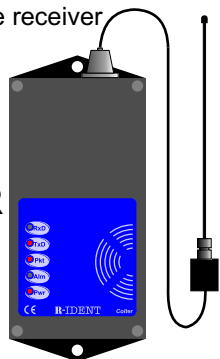
Low power 433MHz (license exempt in the UK and Europe)
Typically 8 years, non-replaceable
-20°C to +85°C
175g (internal aerial), 240g (external aerial)
63.5mm wide, 122mm high, 28.5mm deep
I.P. 68

R-IDENT RX2A or RX2C

Short or long range receiver



OR



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

Low power 433MHz (license exempt in the UK and Europe)
50 Metres (RX2A) or 125 Metres (RX2C)
-20°C to +85°C
550g
76mm wide, 176mm high, 47.5mm deep
I.P. 67 (RX2A) I.P. 60 (RX2C)
8 - 40Vdc (25mA @ 24Vdc.)
RS232, Baud rate: 9600, Parity: none, Stop bits: 1

COLTER GROUP

COLTER PRODUCTS LTD

UNIT 7, ZONE C, CHELMSFORD ROAD INDUSTRIAL ESTATE DUNMOW, ESSEX, CM6 1HD

Tel: +44 (0) 1371 876887

Fax: +44 (0) 1371 875638

e-mail: sales@coltergroup.co.uk

web: www.coltergroup.co.uk

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