


- Keyfob Remote Control System
- Advanced **FM** Technology
- 12 or 24Vdc Supply
- High Security  Protocol
- Additional Transmitters may be added
- Easy Installation Via Screw Terminals.
- Waterproof Enclosure
- Requires No Radio Licence
- Range upto 150metres



### Description

The 'Vantage' Radio release system provides an electronics radio release for the operation of clay traps. This system achieves upto 150metres range by the use of an FM (Frequency Modulated) radio design. This gives many advantages over other AM (Amplitude Modulation – typical keyfob design) systems in performance and reliability.

The receiver unit is supplied within a waterproof rugged enclosures for protection against water ingress. Supplied ready to operate, the only connections required are to the receiver/decoder. All connections are via screw terminals.

Supplied as systems ready to operate, additional transmitters or receivers may be added to obtain your system requirements.

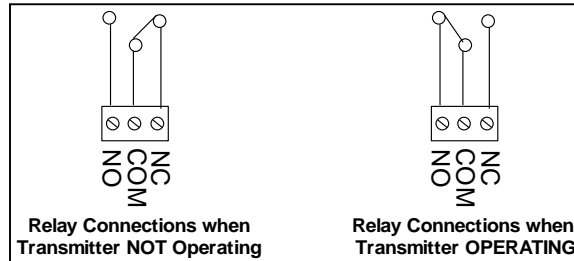
### Remote Control Systems

Part Number	Description	Freq (MHz)	Range** (Metres)
VANS1-433F	Radio release system 1 ch (incl Transmitter and Receiver)	433.92	150
VANS3-433F	Radio release system 3 ch (incl Transmitter and Receiver)	433.92	150
120T1-433F	Additional Transmitter Keyfob 1 switch	433.92	150
120T3-433F	Additional Transmitter Keyfob 3 switch	433.92	150

\*\* Range stated is optimum, direct line of sight. In worst conditions this can be reduced by over 50%

## Relay Output Connections

The receiver 's output provides a 'switch' output which operates when the transmitter switch is pressed. Each relay has the connections as below.



## Notes for use when connecting the Remote Control System to a Clay Trap Release

### Warning : Not all Clay Traps have the same wiring convention!

CHECK YOUR CONNECTIONS. (using a voltmeter) if you are in any doubt, DO NOT CONNECT THE SYSTEM, consult a qualified Electrician. Although the system operates on 12/24V damage may occur to the receiver unit if wrong connections are made.

For more information or general enquiries, please contact

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## Technical Specifications

### Transmitter Keyfob

Battery Type GP23AE (supplied)

Electrical Characteristics	Min	Typical	Max	Units
Supply Voltage	8.5	9	16	V
Supply Current : Quiescent		0		mA
Supply Current : Transmitting		8		mA
Operating frequency		433.92		MHz

### Receiver Decoder

Dimensions 110mm (not including antenna) x 85mm x 35mm

Storage Temperature: -10 to +70° Celsius. Operating Temperature: 0 to +55° Celsius.

ELECTRICAL CHARACTERISTICS	MIN	TYPICAL	MAX	DIMENSION
Supply Voltage for +12 v	9	12.0	16	V
Supply Voltage for +24 v	20	24.0	28	V
Supply Current : Quiescent all relays operating*		19 100		mA
Time delay from Tx on Switch to Rx Relay operation			100	mS
Time delay from Tx sw relax to Rx Relay release			300	MS

\*The relay contacts in this unit are for functional use only and must not be used for isolation purposes

## Data Outputs

Each output relay provides an isolated switch. Connections are Common (COM), Normally Open (NO) and Normally Closed (NC).

The jumper links (J1, J2) configure the outputs to be momentary or latching.

The jumper links are made / removed by a small link 'cap' placed over the pin header. For momentary operation these should left open

## Learning Additional Transmitters to receivers.

Systems are supplied ready to operate, however if an additional transmitter is required then the following procedure should be followed'

Each transmitter has a unique identity, (one of 16 billion possible numbers), the identity number is encrypted and transmitted as a random number that changes on each press of the switch. (the same number is never repeated!). Each receiver can learn the identity of upto 50 unique transmitters.

Note : the same transmitter may be taught to any number of receivers to create 'master keys'.

## Learning a New Transmitter Keyfob Switch

1. Press the learn switch (SW1), the accept LED will illuminate.
2. Press the transmitter once, accept LED will extinguish.
3. Press the transmitter again, the accept LED will flash.
4. Wait for the accept LED to stop flashing.
5. This transmitter will now operate the system.

The system can learn upto 50 unique transmitter keyfobs

## Erasing Existing Transmitters

1. To completely erase the Tx encoders, press SW1 on the Rx decoder for 10 seconds.
2. The learn LED will turn off after the 10 seconds to indicate the Tx encoder(s) have been erased

**NOTE:** You can not erase individual Tx encoders