



10Km Range Rugged Remote Control

Features

- Up to 10Km Range (+22dbm ERP)
- FSK/Spread Spectrum Technology
- Long Range LoRa Mode 1 to 4
- Map any TX switch to any RX O/P
- 4 x Relay Changeover Contacts Rated 4A @ 230Vac (1KW)
- 868 / 918MHz versions

Transmitter

- IP67 Rated
- Powered from 3 x AAA Batteries
- LED Acknowledgment Back from Rx
- Continuous / State change Transmit

Receiver

- 6-32Vac/dc supply
- Waterproof Receiver (IP68)
- Outputs Momentary or Latching
- Optional RX Acknowledge back to Transmitter
- Systems supplied 'ready to go'



Intended Use

- Clay Pigeon Releases
- Industrial Lighting
- Gates / Roller Shutter Doors

Description

A versatile general purpose Remote Control System for many different applications.

Housed in rugged IP67/68 weatherproof enclosures, the TRAP system is ideally suited to any outside Remote switching. Receivers have 4 relay outputs; using the 'easy-learn' process, each output can be controlled from one or many switches for one or many transmitters.

TRAP Remote Control



Ordering Information



Description	Receiver Power Supply	868MHz Version	918Hz Version
System 1 channel	6-32Vac or dc	TRAP-8S1	TRAP-9S1
System 4 channel		TRAP-8S4	TRAP-9S4

Additional Transmitters:



Transmitter	868MHz Version	918MHz Version
1 Switch	TRAP-8T1	TRAP-9T1
2 Switch	TRAP-8T2	TRAP-9T2
4 Switch	TRAP-8T4	TRAP-9T4
6 Switch	TRAP-8T6	TRAP-9T6
8 Switch	TRAP-8T8	TRAP-9T6
16 Switch (8Sw+Shift Key)	TRAP-8T16	TRAP-9T16

Transmitters ship with Lanyard



Additional Receivers

Description	Receiver Power Supply	868MHz Version	918MHz Version
Receiver 4 channel	6-32Vac or dc	TRAP-8R4	TRAP-9R4



Compatible Systems

TRAP products are compatible with other RF Solutions Remote Control Products and RF Modules operating on the same Carrier Frequency (868/918)

Custom Systems

To create a custom transmitter can be as simple as just a custom Sticker!

Please contact Sales for further info.



TRAP Remote Control



Technical specifications

TRAP-Transmitter

Enclosure Rating: IP67
Battery Life: 2 years @ approx. 50 1/2second presses p/day
Dimensions: 90 x 65 x 27 mm (without green sleeve) 100 x 75 x 32 mm (with green sleeve)
Measured at widest point and not including antenna (Antenna = 85mm)

Electrical Characteristics	Min	Typical	Max	Units
Supply Voltage	3.3	4.5	6	V
Frequency		869.500 918.000		MHz
FSK Deviation 868MHz		60		KHz
RF Output Power (ERP)	-	15.5	22	dBm

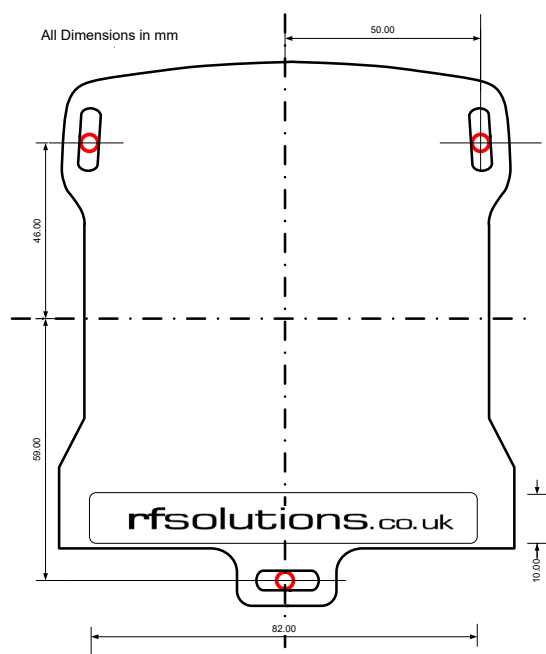
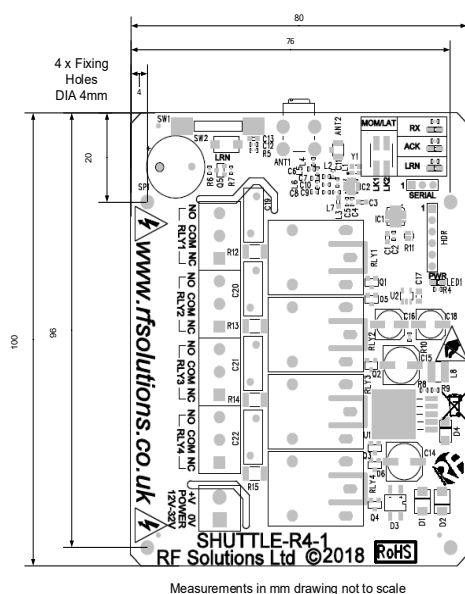
TRAP-Receiver

Enclosure Rating: IP68
Dimensions: 130 x 112 x 42 mm (not including antenna)
Weight: 400grams (Transmitter and Receiver)
Operating Temperature: -10 to +50° Celsius.

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

Electrical Characteristics	Min	Typical	Max	Units
Supply Voltage	7		32	Vdc or ac
Relay Rating* (230Vac)		5	12	A
Supply Current at Vsupply 12V Quiescent All relays operating*		15 175		mA
Time delay: Tx Switch ON to Rx Relay operation Tx Switch OFF to Rx Relay Relax		26		mS

Mechanical Dimensions



TRAP Remote Control



Range Test Notes

Our Range Testing was conducted on the seafront of Brighton, East Sussex, UK providing an open Line of Sight Test.

1. The System was set to LoRa Mode 4 with "Acknowledgment Activated"
2. The Receiver was attached to a Pole ~1.7metres from the Ground.
3. Weather Conditions Warm, Damp, Cloudy, 10°C (typical England!)
4. The transmitter was carried along the seafront whilst repeatedly operated.
5. After the "Transmit Signal" was activated the "Acknowledgment Signal" back from the Receiver was monitored to confirm a successful two way signal.
6. The system exhibited some signal failures along the test in particular when not in line of sight
7. Just under 12KM range was achieved, the system was working 100% however testing ceased because we could go no further in "line of sight". So the system would have operated over a longer distance if we could have done so.



RF Solutions Ltd. Recycling Notice

Meets the following EC Directives:

DO NOT Discard with normal waste, please recycle.

ROHS Directive 2011/65/EU and amendment 2015/863/EU

Specifies certain limits for hazardous substances.

WEEE Directive 2012/19/EU Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfils its WEEE obligations by membership of an approved compliance scheme.

Environment Agency Producer Registration Number: WEE/JB0104WV.



Waste Batteries and Accumulators Directive 2006/66/EC

Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

RF Solutions Battery Producer Number: BPRN00060

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