

RadioPlus

Network Receiver

INSTALLATION INSTRUCTIONS

Texecom

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INS319-2

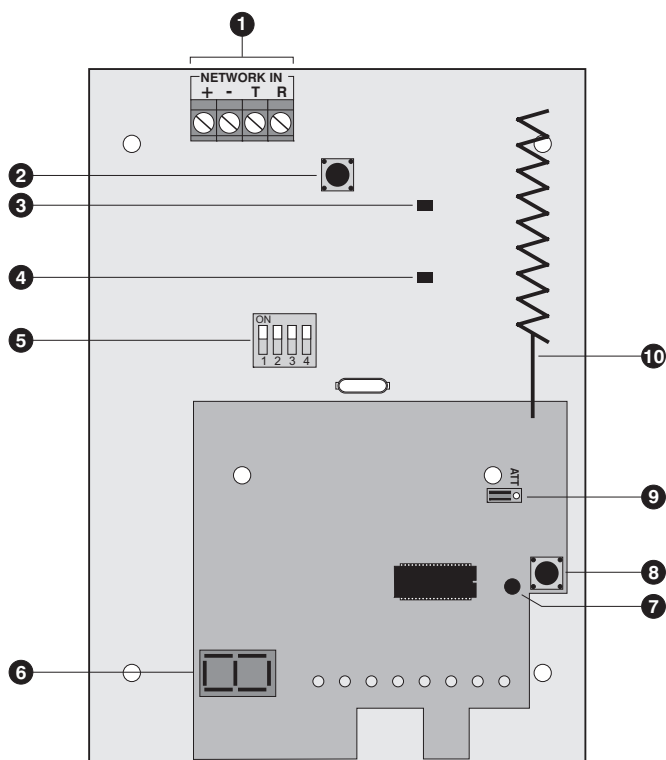
Introduction

The *RadioPlus Network Receiver* is only compatible with the *Premier* control panels. Only one receiver is required per installation, however, multiple receivers can be installed to increase the wireless coverage on larger sites.

PCB Layout and Connections

The figure below shows the PCB layout of the *RadioPlus Network Receiver*:

- | | |
|------------------------------------|------------------------------------|
| ① Network IN connection terminals. | ⑥ Signal strength indicator (0-9). |
| ② Case tamper switch. | ⑦ Power/Detection LED. |
| ③ Power indicator LED. | ⑧ Tamper switch (not used). |
| ④ Received data indicator LED. | ⑨ 6dB attenuation jumper. |
| ⑤ Address selection switch. | ⑩ Antenna. |



Wireless Considerations

- Many factors can affect signal strength including wall thickness and material, location of furniture etc. Sometimes only a small change of position can have a large effect on signal strength.
- Generally the range improves if the receiver and transmitter antennae are in the same orientation.

Choosing a Location

Before installing the *RadioPlus Network Receiver* the following things should be taken into consideration:

- A central location within the protected premises will generally give the best overall wireless coverage.
- Large metal objects such as lintels, water tanks, filing cabinets etc will reduce the system range.
- Installation close to mains wiring and other wireless transmission equipment will reduce system range.

Checking Signal Strength Before Installation

Once a suitable location has been chosen, it is recommended that a signal strength test is carried out as follows:

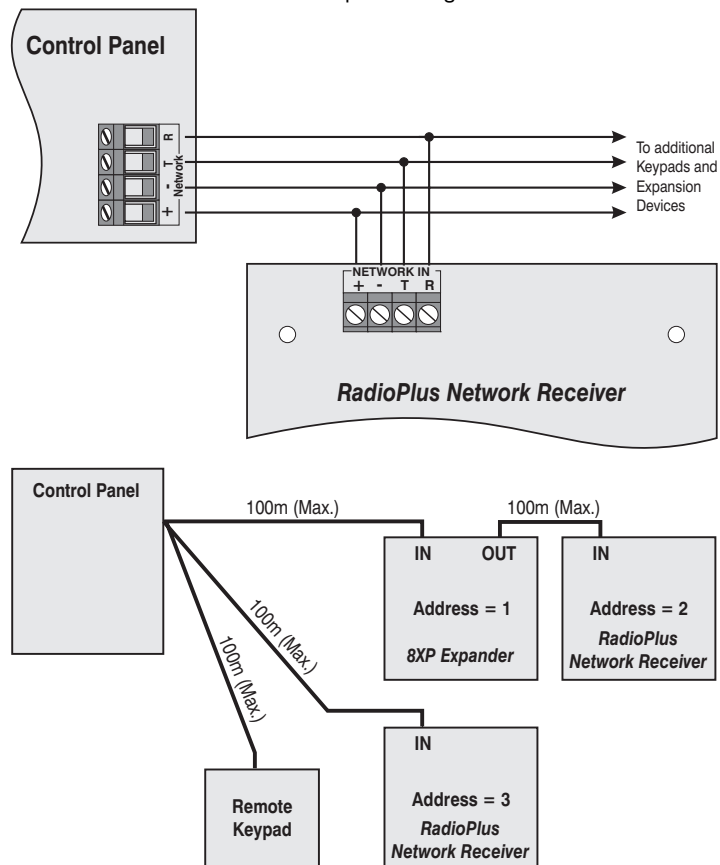
- Power the *RadioPlus Network Receiver* (this may be done from 12V battery connected to the + and - network terminals).
- Set the attenuation link to: this attenuates the signal by 6dB.
- Activate the tamper on a detector, in the proposed position.
- Check that the signal strength is 3 or greater – if not reposition and try again.
- On completion of signal strength test move the attenuation link back to its normal position: .

Installation

- It is strongly recommended that the system is completely powered down (mains and battery) before making any connections to the *RadioPlus Network Receiver*.
- Remove the cover by pulling it away from the top of the housing.
- Position the base in the required location and mark the four mounting holes. Remove the base and drill and plug the holes.
- Pass the network cables through the cable entries and fix the base to the wall using not less than 30mm x No 8 screws.
- Connect the network cable to the network terminals.
- Re-apply power to the system and learn/program wireless devices.
- Refit the front cover and secure with the screws provided.

Network Connections

Connect the receiver to the control panel using 4-core cable as follows:



Network Address

Each receiver must be assigned a different address using the address switches. The table below shows the receiver addressing:

Address	DIL 1	DIL 2	DIL 3	DIL 4
1	On	off	off	off
2	off	On	off	off
3	off	off	On	off
4	off	off	off	On
5	On	off	off	On
6	off	On	off	On
7	off	off	On	On
8	On	off	On	On

The *RadioPlus Network Receiver* is allocated to an expander address slot on a *Premier* control panel and therefore the address MUST not be set to the same address of a standard 8 zone expander (if fitted). The table below shows the maximum number of receivers that can be connected to *Premier* control panels and the software version that supports the *RadioPlus Network Receiver*:

Control panel	RadioPlus Network Receivers	Version
Premier 412	1	V10.5
Premier 816	1	V10.5
Premier 832	3	V3.5
Premier 24	2	V7.80
Premier 48	4	V7.60
Premier 88	8	V7.60
Premier 168	16	V7.60
Premier 640	64	V8.00

Commissioning and Testing

Once the *RadioPlus Network Receiver* has been installed, you can learn the wireless detectors and remote fobs on to the system please refer to the relevant control panel installation manual for details.

Check that the signal strength from each detector is 3 or greater using the signal strength indicator on the receiver or for complete diagnostics use Wintex:

Online Status and Control

Control Panel

Zones & Outputs

Offboard Comms

Onboard Comms

System

Areas

Remote Control

RF Detectors

Radio Devices

No.	Device Type	Serial No.	Mapped To	Status	Supervision	Last Poll	Batt.	Signal Level (0 - 10)
01	Remote FOB	E30300	User 01	Control Button 1	-	-	bat	-
02	Remote FOB	FA0300	User 02	Disarm Button 1	-	-	bat	-
03	Magnetic Contact	D70800	Zone 029	Secure	120 Min.	02 Min.	bat	7.5
04	Magnetic Contact	7A1500	Zone 030	Secure	111 Min.	01 Min.	bat	3.5
05	Magnetic Contact	C30800	Zone 031	Secure	120 Min.	02 Min.	bat	4.5
06	Magnetic Contact	751A00	Zone 032	Secure	113 Min.	01 Min.	bat	6.5
07	PIR Detector	6A3F00	Zone 033	Secure	111 Min.	01 Min.	bat	7.5
08	PIR Detector	9B3C00	Zone 034	Secure	120 Min.	02 Min.	bat	2.0
09	PIR Detector	B63D00	Zone 035	Secure	115 Min.	01 Min.	bat	5.5
10	PIR Detector	FD3100	Zone 036	Secure	107 Min.	00 Min.	bat	0.0
11	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-

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PreviousNextClose

Specifications

Electrical	
Operating Voltage:	10 - 14VDC
Current Consumption:	60mA
Environmental	
Operating Temperature:	-10°C to +55°C
Maximum Humidity:	95% non-condensing
Physical	
Dimensions:	170mm x 140mm x 35mm
Material:	Polycarbonate
Packed Weight:	200g
Standards	
Control Panel Standard:	TS 50131-3 Grade 2 Environmental Class II.
Wireless Standard:	Designed to comply with EN 50131-5-3: 2005 Grade 2.
System Standard:	Suitable for use in systems designed to comply with BS EN 50131-1, PD 6662: 2004



The *RadioPlus Network Receiver* conforms to European Union (EU) Low Voltage Directive (LVD) 73/23/EEC (amended by 93/68/EEC) and Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC (amended by 92/31/EEC and 93/68/EEC).

The CE mark indicates that this product complies with the European requirements for safety, health, environment and customer protection.

Warranty

All Texecom products are designed for reliable, trouble free operation. Quality is carefully monitored by extensive computerised testing. As a result the *RadioPlus Network Receiver* is covered by a two-year warranty against defects in materials or workmanship.

As the *RadioPlus Network Receiver* is not a complete alarm system but only a part thereof, Texecom cannot accept responsibility or liability for any damages whatsoever based on a claim that the control panel failed to function correctly.

Due to our policy of continuous improvements Texecom reserve the right to change specification without prior notice.

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