

S541.RF/RT3 (S541.RFT) Installation Guide

Overview

The S541.RF is a radio frequency (RF) transmitter designed to function as a battery powered switch monitor for use in the INNCOM RF IRAS network. It can also be used in conjunction with virtually any "dry contact" switch input to transmit closure information to the e4 thermostat.

The RT3 (S541.RFT), a modified S541.RF, comes equipped with a temperature sensor and dispenses with the wiring harness for use as a low-cost remote battery operated temperature measurement device only.



Figure 1 S541.RF/RT3

Installation

The installer must be a trained, experienced service technician. When installing this product:

1. Read the instructions carefully. Failure to follow them could damage the product or cause hazardous conditions.
2. Check the ratings given in the product guide to make sure the product is suitable for the application.

S541.RF and RT3 (S541.RFT)

- Mount within operational range (70 ft. indoors) of any devices it may communicate with
- Avoid possible sources of interference such as metallic boxes, WiFi access points, water pipes
- Do not mount in areas of high humidity



Figure 2 Network Topology

RT3 (S541.RFT) (additional considerations)

- Mount in a vertical orientation with the ventilation slits at the bottom edge of the unit
- Avoid direct sunlight
- Avoid direct air discharge (preferably closer to an air intake point)
- Avoid areas around windows and exterior doors

Mounting

1. Remove the top cover
2. Mark the position of the screw holes and drill holes
3. Use the supplied double-sided tape to affix the unit in position
4. Affix the unit with screws
5. Insert 2 AA batteries
6. Secure top cover

Mechanical Drawing

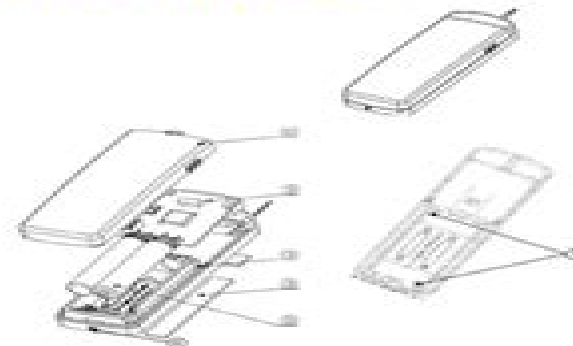


Figure 3 Mechanical Drawing

Item	Description
1	Top Housing
2	PCB Assembly
3	Bottom Housing
4	Double Sided Tape
5	Battery 1.5 AAA
6	Security Screw
7	Mounting Screw Holes

Technical Specifications

Parameter	S541.RF
RF Data Rate	250kbps
Antenna Type	SMT
Indoor Range	70ft
Outdoor/RF line-of-sight range	540ft
Transmit Power	1mW (-30dBm)
Receive Sensitivity	-94.6dBm
Frequency Band	2.4GHz
Encryption	AES-128
Protocol	802.15.4
Frequency Channels	11-26

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