

AquaSpy™ Radio Receiver

Technical Specifications

Specifications subject to change without prior notice



The Radio Receiver is a base station that receives sensor data, in the form of radio signals using the 900MHz ISM band, from remote Radio Nodes (required). This data is then automatically uploaded to a PC, where it can be viewed using the included AquaSpy Display data analysis software.

Radio Base Station

- 1 x Serial (RS-232) null modem input
- 1 x Serial USB (Type B) input
- 1 x 12 VDC 0.08" DC connector input
- 1 x PWR LED
- 1 x 3dBi stub antenna (supplied)
- 1 x USB cable 16ft (supplied)
- Powered by 110V to 12VDC power supply (supplied)
- Optional SMA connector fitting for external antenna options:
 - 3dBi 'stub' 6.6ft cable
 - 6.5dBi 'high gain' 6.6ft cable
 - 6.5dBi 'high gain' 16ft cable
- Choice of 900Mhz radio modules:
 - Aerocomm 100mW (A4490-200)
 - Aerocomm 1000mW (A4490-1000)
- Radio module power draw (typical):
 - 68mA (100mW module)
 - 650mA (1000mW module)
- Radio module switches to 'idle' mode in-between transmissions to conserve power
- Radio modulation = FHSS FSK
- Radio modules have FCC & IC approval
- 900Mhz radio module uses licence-free ISM band
- Radio Receiver software tool included to enable:
 - Configuration
 - Data collection
 - Data acknowledgement
 - Automatic data export into AquaSpy database
- Enclosure specifications:
 - 5.51" x 4.33" x 1.38"
 - High impact ABS plastic
 - 4 x M3 screws supplied to hold enclosure together
- Indoor use only
- One year warranty

Supplied with:

- Type A to Type B USB 2.0 cable (16ft)
- 3dBi Stub Antenna
- 12VDC Power Supply inc 0.08" DC Connector