



Radio Link (RL 70 Series)

- ✓ Access your weather station remotely with a long range wireless link.
- ✓ Up to 50km Point to Point
- ✓ Permanent data-streaming capable: display the current weather conditions in your office or on the internet
- ✓ Minimal ongoing costs, license required for operation

Features

- Low power with very long range
- Secure packet transmission
- Extended range antenna options
- Compatible with all Envirodata weather stations
- High speed - 9600 baud

The RL70 series modems are supplied as a complete field-ready package including two radio modems, antennas, housing and power supply where applicable.

The RL70 systems are capable of transmitting data over very long distances with low power consumption. This makes them easy to solar-power at the weather station end.

The radios can be operated as a pair to provide 'point to point' operation or as a network for literally hundreds of stations, if required.



RL70 modem without housing

The RL70 series radio modems have a transmission distance of up to 20 kilometres line of sight with the standard non-directional dipole antenna, and up to 50 kilometres with the optional directional antenna.

The EasiData MK4 (utilising the RL74 package) and WeatherMaster series (RL72 package) both require an additional housing, & Solar power Package.

Package RL71 is a complete stand-alone solar panel, regulator and batteries, for the RL72 & RL74 packages.

Envirodata Environmental Monitoring & Management

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Specifications

General:

Networkable packet radio modem

Frequency Band:

148 to 174 Mhz Licensed

Range (line of sight):

Dipole – 20 kilometres
Yagi – 50 kilometres

Receiver sensitivity:

- 113 dBm

Transmitter Power:

100 mW to 5 Watt

Communications Interface:

2 x RS232c including Tx ,Rx, CD,
and ground

Reliability:

Typically five (5) years' operation
before factory service.

Housing (RL72, RL74):

High impact PVC sealed IP65 with
sealed antenna, power and
communications connectors
Powder coated, aluminium
sunshade for mounting.

Operating Conditions:

Temperature: -20°C to +60°C
Humidity: 0% to 100%

Power Supply:

12 volt sealed lead acid battery
Current Drain
< 40 mA in standby mode
< 78 mA in receive mode
< 1.25 A in transmit mode

Configurations:

Model

RL70

RL71

RL72

RL74

Suits

Base Station

Solar Power package

WeatherMaster series

EasiData Mk4 series

Antennas

Option D 3 dB omni-directional Dipole

Option Y 6 element 9dB directional Yagi

Cable included: 5 metres

Dimensions:

RL70 Internally housed – base station

RL72 260 x 140 x 100mm
Box dimensions only. Does not
include sunshade

RL74 260 x 140 x 100mm
Box dimensions only. Does not
include sunshade

Shipping Weight:

RL70 Add 7 kg

RL71 Add 10 kg

RL72 Add 9 kg

RL74 Add 9 kg

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