



Gator G5 Series Radio Module

The Gator G Series Radio Module is a decoder module which is capable of activating or deactivating any device using low power radio signals. This module can independently switch from one to four outputs controlling hydraulic devices such as valves and electrical devices such as pumps.

Gator radio modules have been designed to consume minimal power and use long-life lithium batteries as their source of energy thereby omitting the need for other methods of externally supplied power such as mains power or complicated solar equipment with charging circuitry.

Radio controlled irrigation systems offer several advantages over conventional hard wire controlled systems:

- Damage to equipment by lightning strikes and voltage surges is less likely to occur
- Installation of control systems is cheaper and simpler
- Maintenance is cheaper as locating and repairing of faulty wiring is omitted
- Less vandalism and theft of infield wires and equipment
- Systems are modular and can be expanded with minimal disruption

How the system works

The Gator radio module is programmed with a system output number and unique system address using a hand held programmer (HHP).

Control devices such as relays and solenoid valves are linked to the Gator radio module.

Coded data is transmitted from a central control system. This data contains information as to which outputs within the system are to “on” or “off”.

During normal operation, the Gator radio module is continually scanning the airwaves for a signal that coincides with its unique system address and system output number.

On receipt of a signal the Gator radio module will activate or deactivate the devices it controls dependent on the instruction transmitted from the control system.



DESCRIPTION	HR CODE
2 STATION RECEIVER—1 x 3 WAY DC COIL	G8RRX2S1S
2 STATION RECEIVER— 2 x 3 WAY DC COILS	G8RRX2S2S
4 STATION RECEIVER— 3 x 3 WAY DC COILS	G8RRX4S3S
4 STATION RECEIVER— 4 x 3 WAY DC COILS	G8RRX4S4S
2 STATION RECEIVER— 1 x DC LATCHING RELAY	G8RRX2S1R

DESCRIPTION	HR CODE
2 STATION RECEIVER – 0 COILS	G8RRX2S0S
4 STATION RECEIVER—0 COILS	G8RRX4S0S
2 STATION POTTED RECEIVER	G8RRX2SP
4 STATION POTTED RECEIVER	G8RRX4SP

Typical Control System Layout

Using your existing AC or DC irrigation controller, hardwire from your station outputs to the Gator Master Module input terminals and then use data cable to connect to transmitter.



IRRIGATION CONTROLLER
AC OR DC



MASTER MODULE



G8RTX +
G8ROMNI

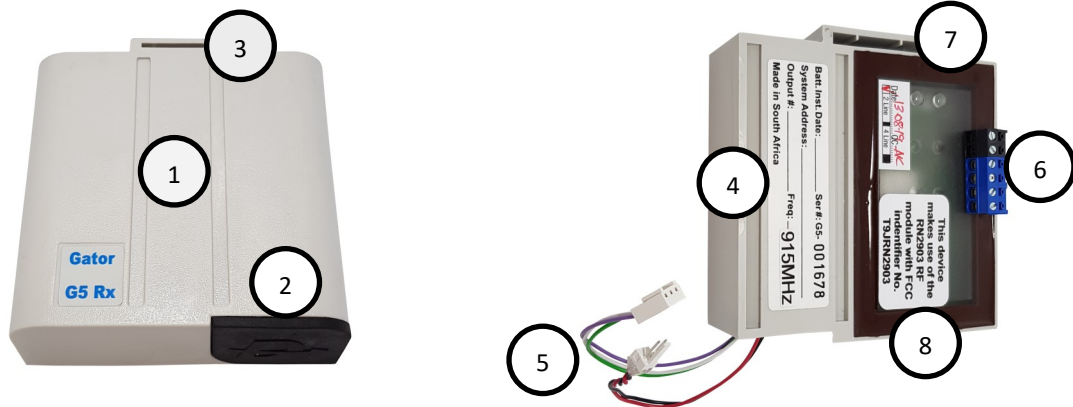
MAX. DISTANCE 2.0KMS



GATOR RADIO RECEIVERS LOCATED AT THE POSITION OF THE DEVICE/S TO BE CONTROLLED

Note: we would always recommend that a site survey be conducted to ensure a good signal strength to all receiver locations.

Unit Features



1. Integrated antennae omitting the need for an external antennae
2. IP65 enclosure rating manufactured from UV stabilized material with electronics fully waterproofed.
3. Integrated mounting point
4. Every unit has its own unique serial number
5. Power and programming cables protected within battery housing
6. Quick connect valve wiring connection point (optional wire loom available on request)
7. Power "On" and Data "Receive" LED's available during initial setup period
8. Device makes use of the RN2903 RF module using 915MHz band width and wireless LoRa® technology