Gator

Wireless Irrigation Control

Substitute under ground or overhead control wires with radio operated controls. Radio controlled systems offer several advantages over conventional hard wire controlled systems:

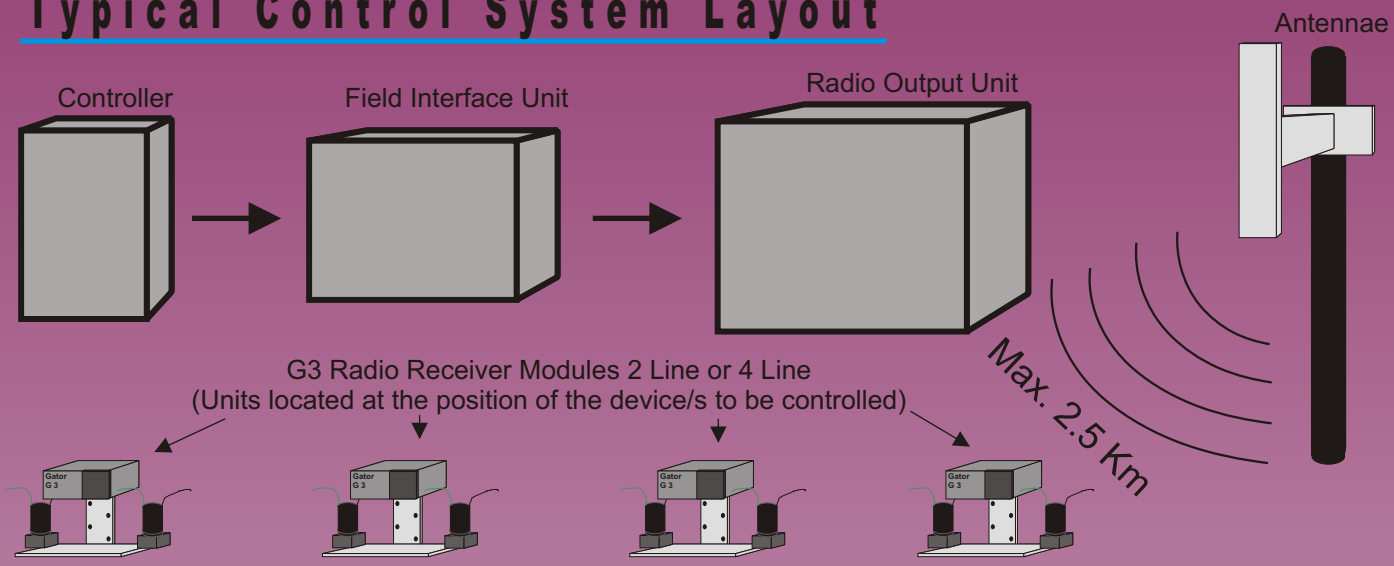
- Damage to equipment by lightning is less likely to occur.
- System installation is cheaper and simpler.
- No need to find and repair faulty wires.
- Less vandalism and theft of infield wires and equipment.

How the System Works

- Any controller/s that activates the output/s using 24 Volt AC (the conventional live and common wire method) or using a constant 5 Volt DC, can be used. This is referred to as the **Stand Alone System.**
- Each output on the controller/s that is to be radio operated is wired from the controller directly into a 24 Volt AC or 5 Volt DC input card. The maximum number of inputs handled on each card is 16. The maximum number of outputs the radio system can control is 128 or the equivalent of 8 input cards.
- The input card converts the signal provided by the controller/s into a digital signal that is passed through a bus board into a transmitter interface card. This process can also be achieved using serial data format obtained from other commercially available irrigation controllers such as GULF, ELAGRO, GALILEO, GATOR 2000, GATOR 5000PC and various other controllers.
- The transmitter interface card converts the data into a protocol that is injected into a standard mobile radio set which transmits a series of codes over the air. The estimated coverage is up to 2.5 kilometers dependant on terrain.
- A battery operated G3 receiver module capable of independently controlling from one up to four outputs (valves or relays) is located at the position of the device/s to be controlled (valve/s, pump/s, etc.) within the control system. Each receiver module is set with its own unique address and will only activate or de-activate the device if this address is detected in the airwaves.

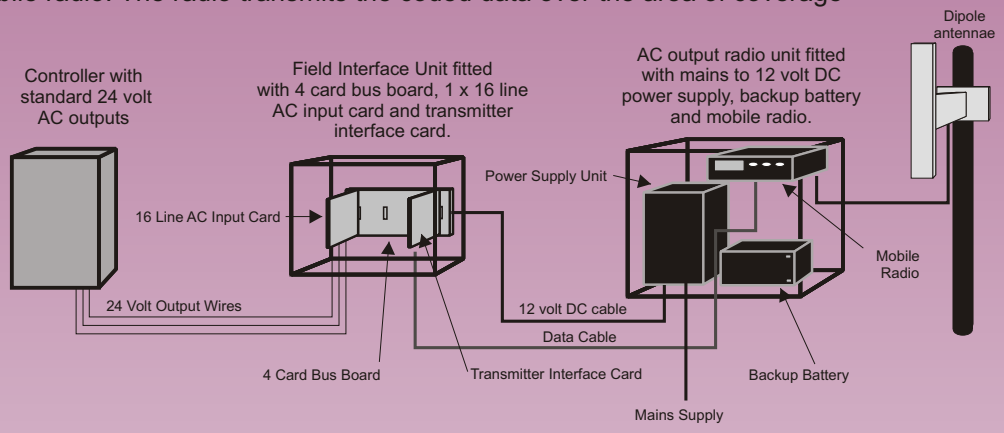
Gator Irrigation Controls

Typical Control System Layout

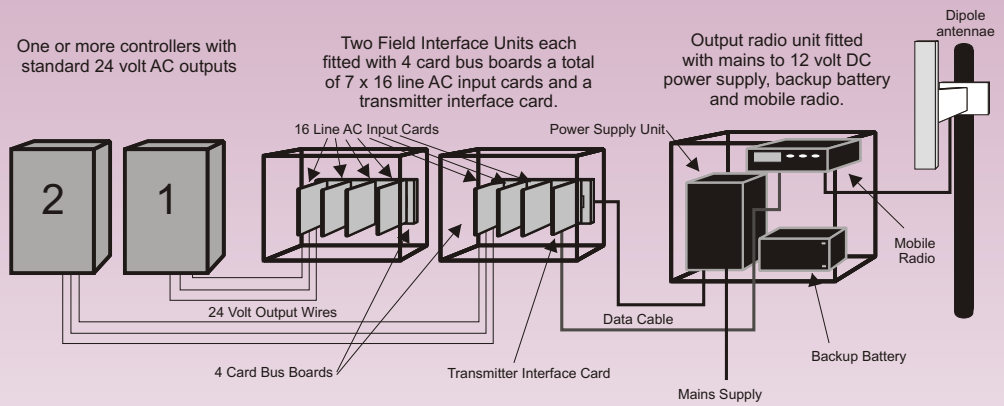


System Examples

Example 1 - A single controller with a maximum of 16 outputs wired to one 16 Line 24 volt AC input card which is installed on a 4 card bus board. A transmitter interface card is fitted to the last slot on the bus board and is connected in turn to the mobile radio. The radio transmits the coded data over the area of coverage



Example 2 - One or more controllers with a maximum of 112 outputs wired to seven 16 Line 24 Volt AC input cards which are installed on two 4 card bus boards. A transmitter interface card is fitted to the last slot on the second bus board and is connected in turn to the mobile radio. The radio transmits the coded data over the area of coverage.



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