STI Engineering
Communications & Electronics Engineers

incorporating RFInnovations
Leaders in Wireless Data

Remote Irrigation System

- **5 Watts**
- **ARQ error recovery**
- **Store and forward repeater**
- **Sleep modes**
- **Self contained unit**

In today's climate of water restrictions it can be time consuming to manage the watering regime of commercial, agricultural and industrial applications to get the maximum amount of water while staying within local government restrictions.

Micro Control Engineering have used STI Engineering data radios to provide ultimate control for distributed irrigation control systems at a central location minimising the time needed to manage the irrigation systems.

The RAINMAN™ system incorporating the Remote Irrigation Controller remote station is an all-in-one remote control solution with minimal on site infrastructure and cabling costs.

The RIC consists of a specialised VHF licensed radio, with incorporated solar battery charger, monitoring inputs and control outputs. The RIC unit manages all of the remote site requirements while the Micro Control Engineering RAINMAN™ control software allows the user easy monitoring and control of their water cycles from one convenient location.

The RAINMAN™ system is especially good for commercial, agricultural and industrial applications as there is no need to dig cable trenches. The RIC unit can be located where the solenoids are already located. The system simply requires a pole in the ground.

A sophisticated radio messaging system incorporates all user commands and diagnostics over one radio channel. The system incorporates Forward Error Correction, Automatic Repeat requests (ARQ) and message routing for efficient use of the radio channel whilst maintaining maximum flexibility for remote unit installation.

The dedicated radio channel means users of the system can have full-time access to control irrigation solenoids and retrieve real-time operational information and diagnostics with no per-byte messaging costs. It means the information can be accessed full-time confirming the availability of the system when it is needed.

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