INTRODUCTION TO REMOTE UNITS
GROW MORE WITH LESS
As the world’s population continues to rise and natural resources come under pressure, more efficiency makes more sense than ever. At netafim we help our customers produce more yields and better crops with less resources. Netafim is the global leader in smart water solutions for agriculture. We help the world grow more with less.

RELIABILITY AND RESULTS WITH NETAFIM’S REMOTE UNITS
Netafim’s remote units provide the combined benefits of continuous monitoring and ultimate distance control, allowing farmers the peace of mind they need, wherever they may be.

These innovative units are optimal for transferring, controlling and monitoring information over extensive distances, providing an updated, real time view of important data. Developed with a deep understanding of irrigation needs, these units offer the freedom and effectiveness required in today’s diverse agricultural settings.

Our product line is adaptable to any field size and enables simple communication with numerous controllers currently in use worldwide. Ongoing supervision of operation maintains a promise of functionality and ensures minimal failures. Also, the friendly user interface makes these units easy to comprehend and use.
RADIONET IS AN ALL-IN-ONE SCALABLE AND ADAPTABLE SOLUTION THAT INCLUDES RTU’S, RADIO AND SOFTWARE, OFFERING CONTINUOUS WIRELESS MONITORING AND ULTIMATE DISTANCE CONTROL. THIS EASY-TO-USE MODULAR SYSTEM ENSURES RELIABLE AND FLEXIBLE CONTROL OVER REMOTE TERMINAL UNITS TO INCREASE PRODUCTIVITY AND ADDRESS CHANGING NEEDS.

**MODULARITY**
With four expansion slots, radionet provides almost unlimited control and monitoring configurations to simply expand modules and strengthen performance.

**CONTROL MODULES:**
- Up to nine digital outputs available:
  - Valves
  - Pumps
  - Filters
  - Fertilizer Injectors
  - Auxiliary Outputs

- Up to ten digital inputs available:
  - Water Meters
  - Fertilizer Meters
  - Pressure Switches
  - Frost Alarm Input
  - Auxiliary Inputs

**WIRELESS CONTROL & MONITORING IN ONE**
Optimized seamless network enables exceptional system architecture with enhanced throughput in virtually any environment.

**EXTENDED COVERAGE**
Each remote unit can operate as a “store & forward” (S&F) data repeater to increase geographical coverage up to 3 miles (5 km) between every two units and up to 14 hops. This function also supports redundant data transfer and dead spot elimination to achieve an even higher level of data reliability.

**COMPATIBILITY**
Versatile and easy connectivity to a wide range of controllers currently on the market, makes radionet a modular, cost-efficient tool for future growth.

**BUILT-IN SURVEY MODE**
Ensures optimal long term operation with instant recording and charting of frequency interruptions across the entire network from the initial unit installation.

**ENERGY EFFICIENCY**
Designed for low power consumption, radionet operates in sleep mode most of the time, reporting and controlling when needed to ensure extended battery life. Each unit can be powered by rechargeable batteries and solar cells.

**SECURE COMMUNICATION PROTOCOL**
With multiple layers of encryption and time-based data authentication radionet provides increased data security operation.

**RELIABILITY IN EXTREME CONDITIONS**
Radionet remote units temperature range is -25°C to 85°C (-13°F to 185°F) which ensures reliable operation under the most severe environmental conditions.
SINGLE NET

SINGLENET ENABLES ONGOING, REMOTE MONITORING AND CONTROL OF IRRIGATION SYSTEMS WHILE REDUCING CABLE AND INSTALLATION COSTS. THIS UNIQUE SYSTEM COMBINES RELIABLE HARDWARE AND SOFTWARE, PROVIDING A TRUE SENSE OF CONFIDENCE.

SINGLENET INTERFACE UNIT:
- Powered by 12 VDC
- Total cable length up to 10 Km
- Controls up to 128 RTUs

SINGLENET REMOTE TERMINAL UNIT (RTU):
- 2 outputs – 2/3 wires latching solenoids
- Independent capacitor per output, minimizes operation delay
- Auto-valves shut down on communication or power failure
- Two digital/water meter inputs
- PC connection for easy setup and monitoring
- Optional plug-in lighting suppression module

MODULARITY
With three expansion slots, you can tailor any combination of control & monitoring modules to meet changing requirements.

CONTROL MODULES
UP TO SIX DIGITAL OUTPUTS AVAILABLE:
- Valves
- Pumps
- Filters
- Fertiliser Injectors
- Auxiliary Outputs

UP TO SIX DIGITAL INPUTS AVAILABLE:
- Water Meters
- Fertiliser Meters
- Pressure Switches
- Frost Alarm Input
- Auxiliary Inputs

PLUG & PLAY LIGHTNING SUPPRESSION MODULE
A lightning protection system is highly significant in lightning stricken areas.

SINGLENET – 2 WIRE CABLE SYSTEM
The system uses a 2-wire cable for power and communication. The single net interface communicates with the rmc or other controllers enabling friendly operation and monitoring over the entire rtu network.