RADIONET

CONTINUOUS WIRELESS MONITORING AND ULTIMATE DISTANCE CONTROL

RADIONET COMBINES CONTROL AND MONITORING CAPABILITIES IN A RADIO-BASED PLATFORM

RadioNet is the next generation in radio valve control systems. For the first time, control and monitoring functions are combined in a radio-based platform which features easy to use diagnostic intelligence to ensure peak performance now and into the future.

The RadioNet System includes Remote Terminal Units (RTUs), Radios and Software which provide continuous wireless monitoring and ultimate long distance control. This modular system provides reliable and consistent results and allows control via a Netafim NMC Controller or many other irrigation controllers.

With Store and Forward Technology, each unit has repeater options which provide the ability to overcome objects in the way of the communication path and allow commands and information to be sent across great distances.

RadioNet is intended for use in open fields, nursery and net house/greenhouse applications.
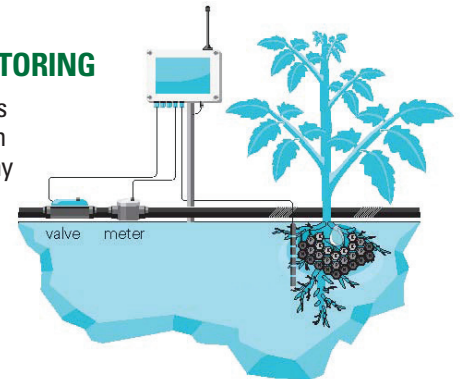
RADIONET REMOTE TERMINAL UNIT

PRODUCT FEATURES

- Wireless Control and Monitoring
- Modularity and Scalability
- Extended Range
- Diagnostic Reliability
- Built-in Survey Mode
- Reliability in Exteme Conditions

WIRELESS CONTROL & MONITORING

Optimized seamless network enables exceptional system architecture with enchanced throughput in virtually any environment.
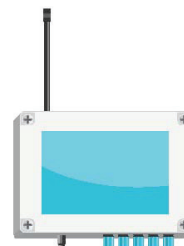
valve   meter

MODULARITY & SCALABILITY

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

UP TO 9 DIGITAL OUTPUTS

- Valves
- Pumps
- Filters
- Fertilizer Injectors
- Auxiliary Outputs
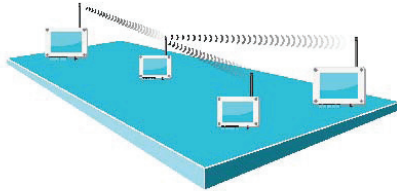
UP TO 10 DIGITAL INPUTS

- Water Meters
- Fertilizer Meters
- Pressure Switches
- Frost Alarm Input
- Auxiliary Inputs
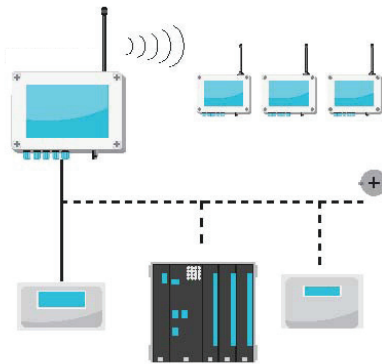
RADIONET FEATURES AND BENEFITS

EXTENDED RANGE

Each remote unit can operate as a store & forward data repeater to increase geographical coverage up to 3 miles 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.
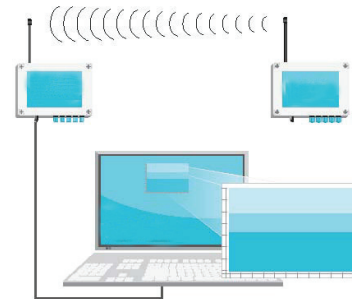
DIAGNOSTIC RELIABLITY AND BUILT-IN SURVEY MODE

Embedded advanced features such as immediate assessment of a frequency failure and service downtime through remote alerts and diagnostics. Built-in survey mode ensures optimal long term operation with instant spectrum analysis by recording and charting frequency interruptions across the entire network from the initial unit installation.

RELIABILITY IN EXTREME CONDITIONS

Remote units have a temperature range of -13° to 185° F to ensure reliable operation under the most severe environmental conditions.

ORDERING INFORMATION

ITEM NUMBER	DESCRIPTION
74330-012100	RADIONET BASE STATION
74330-012000	RADIONET HOST COMPLETE UNIT RS485/232
74330-005100	RADIONET MONOPOLE ANTENNA 430-470MHZ 33'
00107-008102	CHARGER 12VDC 4 AMPS
00107-008101	BATTERY 12VDC 24AH
74330-012200	RADIONET RTU (1 DO X 2 DI)
74300-013140	RADIONET EXPANSION CARD (2 DO X 2 DI)
74300-005050	RADIONET MONOPOLE ANTENNA 430-470MHZ 19'
74330-005000	RADIONET MONOPOLE ANTENNA 430-470MHZ 10'
74330-010350	1/4 WAVE WHIP ANTENNA KIT WITH 3' CABLE
74330-002950	RADIONET SOLAR PANEL KIT 6V 1.1W
74330-003025	BATTERY 6V 1.2AH SLA (NP1.2-6)
74330-003170	BATTERY CRADLE FOR 6XAA (EXCL. BATTERIES)
74300-003150	BATTERY CRADLE FOR 4XAA (EXCL. BATTERIES)
74330-005730	BATTERY MOUNTING KIT FOR RADIONET RTU
35500-002000	NORMALLY OPEN/CLOSED 12VDC LATCHING SOLENOID
73220-023550	OUTPUT RELAY 12VDC LATCHING

SPECIFICATIONS

FREQUENCY	FROM 402 TO 474 MHZ , BAND WIDTH 12.5 KHZ
POWER	1 - 400M WATT
HARDWARE	UP TO 254 RTUS PER NETWORK
INPUTS	2,540
OUTPUTS	2,286
POWER SUPPLY	6VDC, OUTPUT 12-16VDC LATCH

NETAFIM™
GROW MORE WITH LESS