



RADIONET

ADVANCED RF VALVE CONTROL

OVERVIEW

RadioNet is a unified wireless monitoring and control system. Featuring an advanced and modular design, RadioNet is comprised of remote terminal units (RTUs), radio frequency (RF) communications, and software to enable long-distance wireless monitoring and control. The user-friendly system ensures reliable and flexible control over RTUs to increase productivity with minimal interruptions at the highest level of scalability.

HIGHLIGHTS & BENEFITS

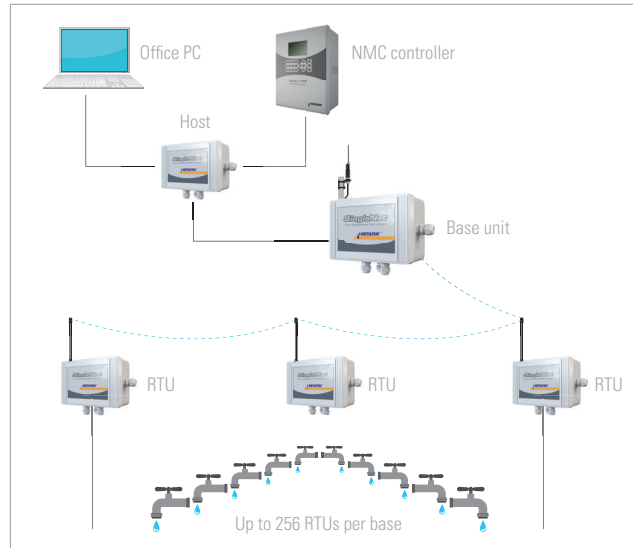
- Advanced and modular design that easily integrates into existing systems and ensures network stability
- Flexible and versatile to enable system expansion as the enterprise expands
- Repeater technology to avoid infringing objects while covering great distances
- Long-distance signal capabilities
- Control of up to 2,000 valves and 2,000 sensors at one time to provide maximum control and reliability for large-scale projects

FEATURES & FUNCTIONALITY

- **Wireless network** – optimized seamless wireless network enabling exceptional system architecture with enhanced throughput in virtually any environment
- **Modular and scalable** – four modular expansion slots enabling virtually unlimited control and monitoring configuration to strengthen performance
- **Built-in survey mode** – optimal long-term operation with instant spectrum analysis by recording charting frequency interruptions across the entire network from the initial unit installation
- **Extended coverage** – remote unit operability as a store & forward (S&F) data repeater to increase geographical coverage by up to 3 miles (5km) between every two units, and by a total of 43 miles (70km) with all repeaters
- **Easy integration** – versatility and easy connectivity (using Modbus protocol) to a wide range of controllers making it a cost-efficient tool for future growth
- **Energy efficient** – low-power consumption design that typically is in sleep mode (reporting and controlling only when needed) to ensure extended battery life; units can be powered by rechargeable batteries and a solar cell
- **Diagnostic reliability** – embedded advanced features such as immediate assessment of a frequency failure and remote alerts and diagnostics in the event of service failure
- **Secure communications protocol** – increased data security operation with multiple layers of encryption and time-based data authentication
- **Reliability in extreme conditions** – remote unit temperature range of -13°F-185°F (-25°C-85°C)



TYPICAL INSTALLATION



ORDER DETAILS

SAP #	DESCRIPTION
74330-012000	R-NET HOST COMPLETE UNIT RS485/232
74330-012100	R-NET BASE STATION
74360-007600	R-NET CENTER UNIT (HOST+BASE+BATT+PS)
74330-012200	R-NET REMOTE UNIT RTU (1DO, 2DI)
74330-012195	R-NET RTU 2XDO 2XDI
74330-013140	R-NET EXPANSION CARD 2 X DO/2 X DI
74330-005120	R-NET MONOPOL.ANT.430-470 10M GROUND.486
74330-005020	R-NET MONOPOL.ANT.430-470 3M GROUNDED484
74330-005060	R-NET MONOPOL.ANT.430-470 6M GROUNDED485

SPECIFICATIONS

Frequency: 402-474MHz, channel spacing 12.5kHz

Power: 1-400MW

Hardware capacity: up to 254 RTUs per network, with 2,286 outputs and 2,540 inputs

Supply power 6VDC, output 12-15VDC Latch

CONTACT INFORMATION

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