



HVAC and Refrigeration Solutions for Dark Stores

Control and Monitoring



ActiveFM™

Enterprise Remote Monitoring FM Software

RDM's intelligent remote monitoring software provides complete facility and energy management. Automated alarms alert users if any equipment is not performing according to set parameters. Its web-based dashboard offers user-friendly access. Also available is the option for a dedicated team of alarm handlers, based in RDM's head office in Glasgow, to manage alarms to minimise the involvement of staff on-site.



DMTouch

Front-End Control and Monitoring

RDM's front-end device provides a central point to control and monitor HVAC, refrigeration and lighting assets within a building. Remote dial-in access facilitates HVACR management. DMTouch's capability to store operating data for over five years supports regulatory compliance. Using data from water, gas and electricity consumption, the device provides statistics and trends to support energy monitoring. Alerts such as over-temperature alarms can be forwarded to dedicated personnel to facilitate alarm triaging.



Intuitive

HVAC, Refrigeration, Lighting Control

Available with RDM's PLC software TDB built-in, Intuitive controllers manage HVACR and lighting equipment. They also provide energy regulation for various refrigeration applications. It's easy and fast to install Intuitive controllers due to their flexible nature, quick set-up options, and web-based access to their software.



Bluetooth Solution

Wireless Temperature Control & Monitoring

RDM's Bluetooth range offers an easy-to-install, user-friendly solution to control HVACR devices and monitor the temperature of refrigeration cabinets and coldrooms. Automatically recorded temperature data is sent to the control system front-end DMTouch, where it is stored for years to comply with regulations. RDM's Bluetooth range utilizes a mesh network, allowing signals to bypass obstacles to find reliable paths for data transmission.



Mercury

HVAC and Refrigeration Temperature Control

Mercury controllers have six control applications for a quick setup: HT/LT control of integral cabinets, piped cabinets, and coldrooms. They can generate alarms based on pre-set temperature parameters to support food safety compliance. Energy-saving features are included such as trim level control and defrost skip.



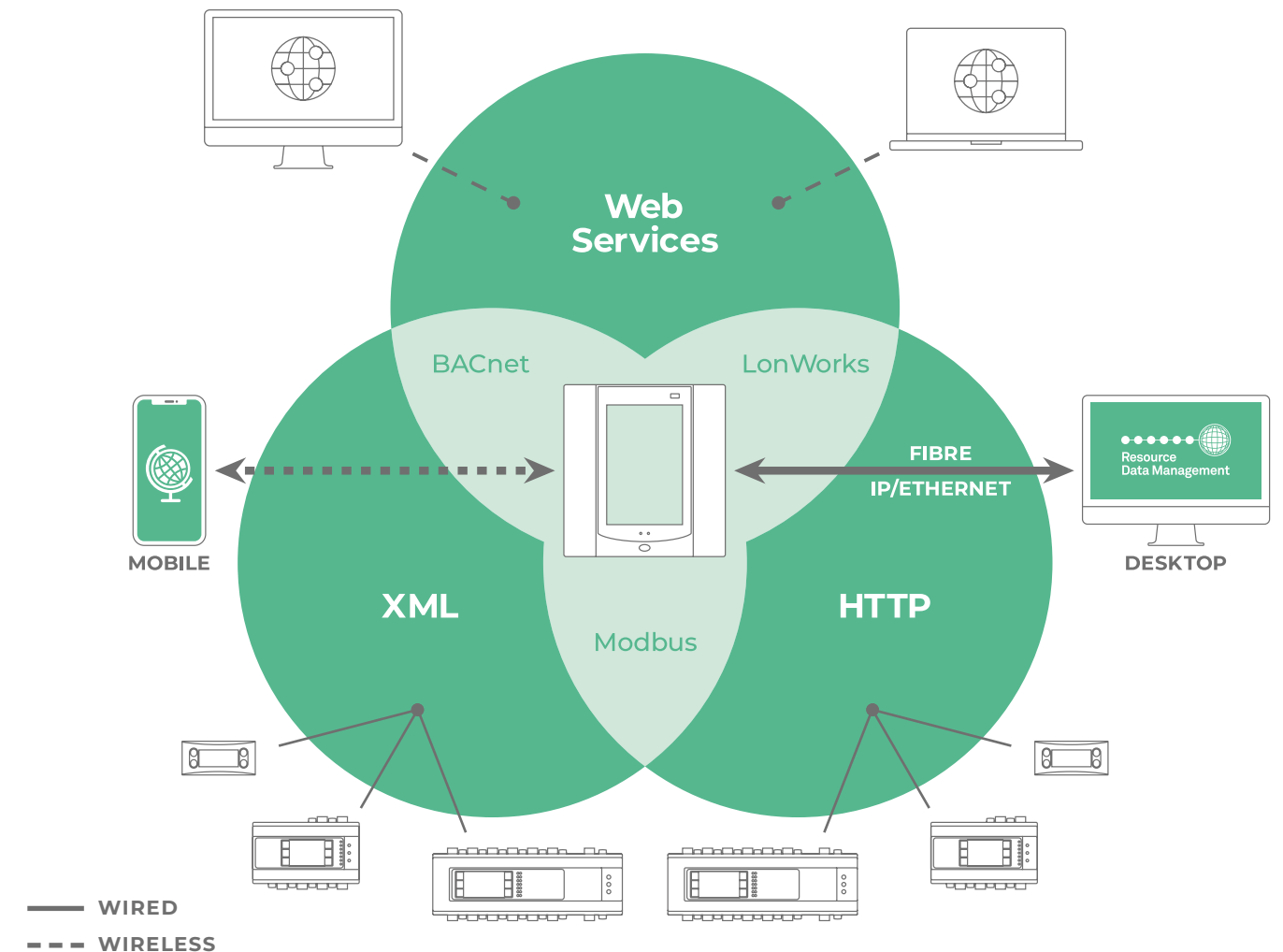
Coldroom Panel

HT/LT Coldroom Control

Designed for use in either low or high-temperature coldroom applications. Options allow for the control of LLV, PWM EEV or Stepper EEV refrigeration valves. The Coldroom controllers come with pre-set parameters and configurations for temperature control and monitoring as well as food safety and HACCP compliance. Defrost skip and real-time clock features contribute to energy savings.

IoT Integration & Networking Across Truly Open Protocols

Communication between RDM devices is based upon truly open protocols, using XML and HTTPS, to provide unmatched control and communication options. Offering Fibre and Bluetooth options, in addition to industry standard networking options, our aim is to simplify the communication process to make it as efficient and cost-effective as possible.



Truly Open Protocols

Non-Proprietary Protocols

IP, XML, and HTTPS are genuinely open, they have no hidden membership costs. Overcoming the challenges presented by legacy investment, we provide the capability to communicate with existing HVAC and refrigeration equipment via non-proprietary networks including BACnet, Modbus, and LonWorks. Open protocol systems offer a higher degree of flexibility and don't lock users in.

- Open web-based format
- Integrate with third-party systems
- No annual subscription fee for device integration

- Reduced cost of linking equipment on-site
- Reduced installation and set-up time
- IP at device level since 2004

SOLUTIONS FOR . . . ENERGY MANAGEMENT

Increased energy efficiency is vital to reduce operating costs and carbon footprint. RDM solutions are based on the principle of streamlining efficiency. From implementing efficient automation strategies, to energy management software and statistical consumption analysis, our solutions are proven to reduce energy use and carbon footprint.



Control & Monitoring of:

- Air Conditioning
- Heating
- Indoor & Outdoor Lighting
- Air Handling Unit
- Energy, Water, & Gas Meters
- Hot Water Tank/Boiler



Coldroom Temperature Control



Control & Monitoring of:

- Condenser Fans
- Compressor
- Pack
- Heat Recovery



Room Temperature & Humidity Sensors



Lux Sensor

SOLUTIONS FOR . . . HVAC APPLICATIONS

Integrating HVAC and lighting assets into the control and monitoring system is essential to ensure a building is running efficiently. RDM's front-end system DMTouch allows staff to easily control and monitor HVAC, refrigeration and lighting assets from one device. The user-friendly menu on the touch screen is easy to navigate, requiring minimal guidance to learn its functions. DMTouch is based on open protocols and can communicate with third-party equipment already existing on-site, facilitating installation.

SOLUTIONS FOR . . . REFRIGERATION

Stable, reliable temperature regulation is the primary purpose of cabinets and coldrooms. Optimal performance ensures food safety regulatory compliance, reduces stock loss and saves operating costs. RDM's refrigeration solutions are designed for use across a wide range of applications to ensure optimal refrigeration performance.



CONTROL & MONITORING SYSTEM FRONT-END



Control & Monitoring of:

- High/Low Temperature Refrigerated Cabinets
- Hot Water
- Over Door Heater



SOLUTIONS FOR . . . MONITORING

It is time-consuming and labour-intensive to manually ensure that HVACR equipment is running at optimum efficiency. Since 2000, award-winning remote monitoring and predictive maintenance software ActiveFM™ has consolidated operating data for thousands of companies worldwide. It provides energy management options, alarm handling and automated predictive maintenance.

Resource Data Management

Helping companies stay safety-compliant, protect assets and manage energy, we offer a range of over 800 hardware and software products for HVACR, building and energy control applications. Our solutions are used in many industries including food retail, building management, cold chain, food processing and many

more. Users have the option to monitor and control everything from a single component to building-wide energy use, across a national estate and devices worldwide.

As a pioneer in advocating open control systems at device level, our ongoing push for genuinely open protocols, including XML and web services, has helped

our customers save operating costs and optimise control strategies.

Founded in 2000, RDM have expanded over the past two decades. With offices in the UK, US, and Malaysia, as well as affiliates and distributors across the globe. We support customers worldwide.

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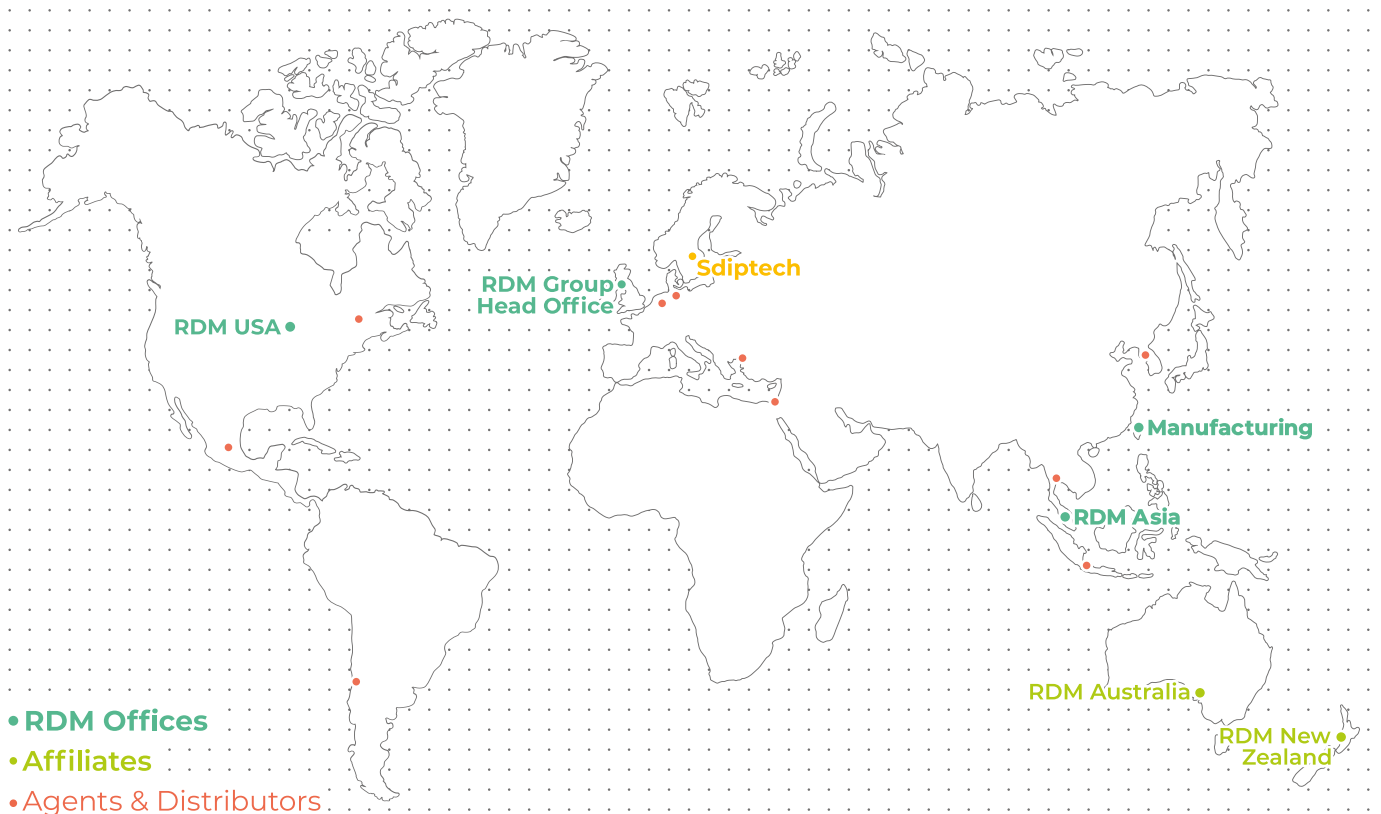
Warranty

800+

Products

OPEN

Protocols



- RDM Offices
- Affiliates
- Agents & Distributors

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