

# Fibre Optics Solutions for Advanced Energy Management

# Complete Energy Monitoring Solution

Featuring Fibre Optics Technology



## DMTouch

### Front-End Control and Monitoring System

DMTouch provides a central control and monitoring point for HVACR assets and energy data. It features fibre connectivity which ensures that it can securely receive energy data over long distances. It can integrate with and collect data from third-party energy meters via open protocol communication. DMTouch monitors metered consumables including gas and water, predicts budgets, displays energy usage trends, and issues high-consumption warnings.



## Intuitive Switch

### Fibre Adapter for CAT5 Connections

Intuitive Switch devices enable the integration of energy meters and of the front-end system DMTouch into the same fibre infrastructure. Acting as an adapter between fibre optics and CAT5 cables, Intuitive Switch devices can connect straight to the DMTouch and to energy meters via a CAT5/RS485 adapter.



## TouchXL

### HD Multi Touchscreen Controllers

TouchXL provides a remote user interface for RDM's front-end DMTouch. TouchXL devices can be mounted at an easily accessible location to view energy data. This is especially useful in large facilities such as distribution centres and warehouses, so that data can be accessed from multiple points on the estate. Connecting via a CAT5 cable, TouchXL devices can also be integrated into the fibre optics network via an Intuitive Switch.



## Energy Meters

### Sub-Metering via RDM's or Third-Party Meters

Our single and three phase energy meters can be used for submetering energy use of any electrical equipment onsite. The single-phase energy meter can monitor import and export energy, ideally suited for wind or solar energy applications. If third-party energy meters for submetering energy use are already installed, there's no need to replace them. They can be integrated into RDM's monitoring infrastructure so that their data is also accessible via our front-end DMTouch.



## Kwheb™

### Energy Monitoring Dashboard

Cloud-based energy monitoring dashboard Kwheb collates and presents estate-wide energy data to support energy management strategies. The dashboard home screen for Kwheb provides users with an overview of comparable data and hourly, daily, and weekly consumption graphs. Its tracking tool features annual cost summaries alongside meter readings and budget information. Analysis tools provide details on periodic variation, mean energy loads, site benchmarking, demand drilldown, and more.



## RPI

### Refrigeration Performance Indicator Software

Our RPI software offers energy monitoring benefits that are unparalleled in the industry. Using energy data from submeters, it delivers data for individual components of a refrigeration system. The data is presented in various categories, including kwh per meter, per square meter, for the last hour, and last 24 hours. Using this data, businesses can perform like-for-like comparisons to identify equipment with high energy usage and find potential faults.

# Long-Distance Data Transfer & Third-Party Integration

## Reliable Long-Distance Data Transfer

### With RDM's Fibre Optic Solutions

In large facilities, such as in warehouses and distribution centres, there are often long distances between energy meters and the front-end system that receives the energy data.

Using fibre optic cables as a connection is a reliable solution to transfer energy data. Fibre optics cables can cover long distances, guarantee low latency, high bandwidth, and secure data transmission.

RDM offers a complete energy monitoring solution that uses fibre optic communications between energy meters and front-end systems to ensure reliable data transfer.

## Third-Party Integration

### For Smooth Energy Monitoring

Energy meters form the base of every energy management strategy: without their data, benchmarking, analysis, and goal setting would be impossible. Businesses that want to make use of RDM's fibre optic solutions for reliable data transfer don't

need to replace existing third-party meters.

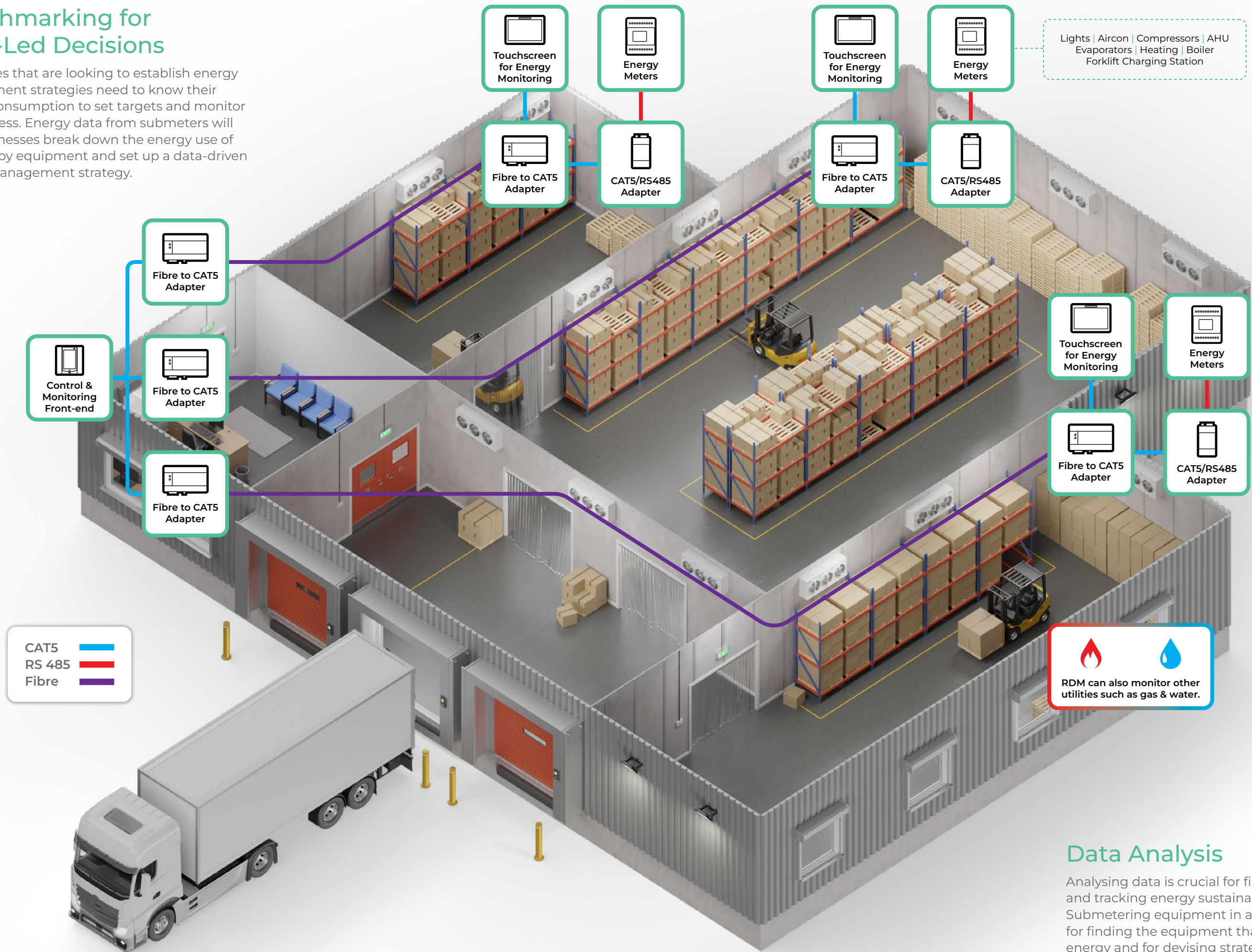
Our front-end system DMTouch is fibre optics compatible and it is based on open protocols. This means that it can receive data from third-party devices.

Existing legacy meters can remain in place which reduces installation costs and setup time. It also supports businesses' sustainability efforts as existing meters don't need to be sent to landfills.



# Benchmarking for Data-Led Decisions

Businesses that are looking to establish energy management strategies need to know their current consumption to set targets and monitor the progress. Energy data from submeters will help businesses break down the energy use of their site by equipment and set up a data-driven energy management strategy.



## Data Analysis

Analysing data is crucial for finding inefficiencies and tracking energy sustainability targets. Submetering equipment in a facility is important for finding the equipment that uses the most energy and for devising strategies to address it. With submetering, businesses can also detect sudden energy spikes that indicate equipment faults and carry out maintenance where required.

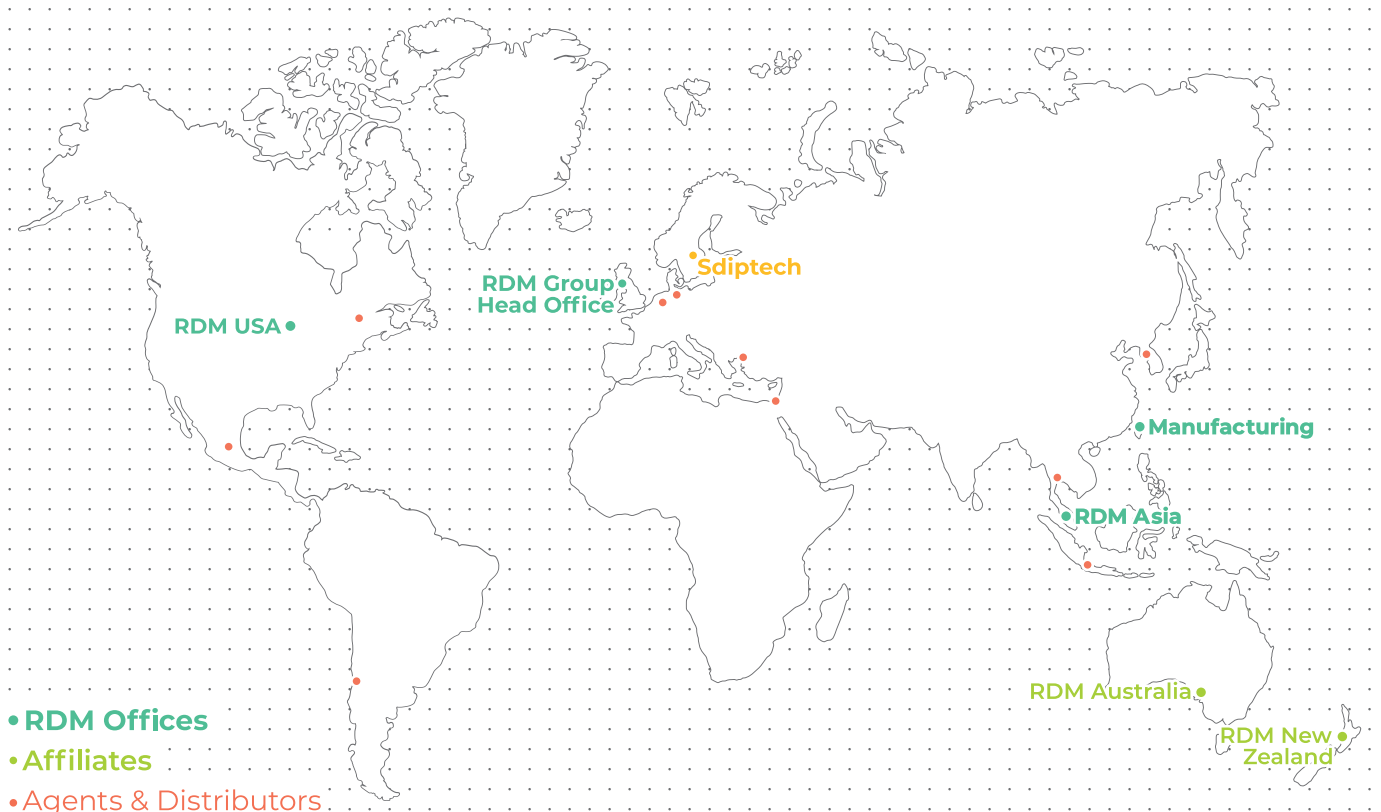
# Resource Data Management

We help businesses optimise their HVAC-R control systems, reduce energy use, and ensure food safety compliance. Sustainability is key to our innovations and has been from the very start.

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

**THIRD-PARTY** Integration | **LIFETIME** Software Licences | **5YR** Warranty | **EXPERT** Technical Support | **END-TO-END** Solutions

Visit [www.resourcedm.com](http://www.resourcedm.com) for more information on RDM solutions.



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