Building management
Controls to increase efficiency and transparency
Delivering whole solutions

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Airedale’s Building Management Systems (BMS) enable you to control and monitor building technical services and equipment to improve building and system efficiency and reduce operating costs, whilst delivering proven, rapid and sustainable energy savings.
Save energy, save money

Reducing energy consumption is a key driver for many businesses. As energy costs continue to increase, building operation and cooling costs also increase. Yet small changes and simple upgrades to your BMS or cooling system will ensure your building is running at its optimum, dramatically reduce your energy consumption and provide significant cost savings.

Energy saving upgrades currently available:
- EC fan replacements
- Electronic Expansion Valves (EEVs)
- Controls and BMS replacements
- Variable speed drives
- Refrigerant
- Inverters

Products and services

Offering flexibility and choice

As well as Building Management Systems, Airedale offers a wide range of other products and services that help to manage and improve the performance of cooling systems and other building services including:

- Existing building energy surveys and reports, energy and carbon reduction
- BMS and Energy Health Checks
- BMS upgrades to software and controls
- Energy monitoring upgrades with installation and support
- Control system design
- Project Management
- On-site project handover
- Bespoke in-house design and manufacture of control panels
- Site installation and commissioning
- Tailored individual graphics
- Customer support and training
- 24/7 Airedale technical support available
ACIS™ BMS, Airedale’s exclusive Building Management System is an innovative, scalable and future-proof solution which has been specifically designed to enhance system performance, drive down operational costs and aid decision making for a wide range of building services.

Offering a more pre-emptive BMS solution, ACIS™ is able to make decisions, delivering a higher level of building intelligence. With its simplistic and intuitive interface, ACIS™ BMS allows you to gain access anytime, anywhere to your building’s systems, enabling you to manage building services from any manufacturer across multiple sites through a single integrated system.

A wide range of features enable total system efficiency to be evaluated, puts the user in full control, provides complete visibility of all building services and offers total facility integration.
**Complete Visibility of Building Infrastructure**

- Increase building and system transparency
- Identify and resolve service issues quickly
- Single, one touch solution to collate all data
- Flexibility to grow with site requirements

**Immediate Notifications**

- Maximise system uptime with instant warnings on alarms and system failures
- Email and/or SMS alerts for improved monitoring
- Scheduled alerts for maintenance and reminders

**Extensive Analysis, Monitoring and Diagnostic Tools**

- Monitor and measure building performance to create progressive actions, make system corrections and optimise building performance
- Produce automated and scheduled detailed reports which can be emailed directly to recipient
- Gain a visual understanding of building and system efficiency through alarm logging and graphing functionality
- Forecast building operating costs and make targeted cost saving decisions
- Option to transmit data to Airedale’s central server system providing extra layer of security and resilience

**Secure Remote 24/7 Access**

- Secure remote account login with defined user level access
- Range of security system features with intelligent parameters
- Manage single or multiple sites

**Fully Compatible**

- Can be fully integrated with Airedale or other manufacturers equipment
- Ideal retrofit solution
- Fully customisable
- Incorporate with all major communication protocols, a wide range of proprietary protocols can also be licensed to ACIS™

**Standard Protocols**
- BACnet™ IP and MSTP
- MODBUS RS485 and TCP
- SNMP
- Lonworks FTT and IP
- KNX IP
- M-Bus

**Proprietary Protocols**
- Trend IQ2, IQ3 and IQ4
- Mitsubishi
- EnOcean / WEMS
- Honeywell Galaxy
- Dali / Lighting
- Various Danfoss Protocols

**Live Capture and Historical Energy Usage**

- Identify and highlight potential energy savings
- Detect power issues
- Reduce energy consumption and energy costs
- Data analysis and reporting enables cost driven decisions to be made

**Visualisation and Graphical Representation**

- Graphical, web browser based interface to the BMS
- Intuitive data representation

**Optional 24/7 Support**

- Service and maintenance plans available
- 24/7 emergency cover available
- Direct and immediate access to the latest system upgrades and software developments
Airedale fully manages controls projects, taking them from concept to design, right through to delivery and testing, eliminating the need to outsource any project elements.

**Design**
With an in-house design team, state-of-the-art test facilities and the latest design software, Airedale develops bespoke control systems to suit individual requirements/sites.

**Manufacture**
With a 23,000 m² first-class manufacturing facility, Airedale manufactures all control systems on site. Airedale can create custom built panels, small pump starter panels, bespoke drive systems or large intelligent motor control centres, which fully comply with all relevant safety standards such as ingress protection, form, colour, material etc.

Control panels can include simple relay logic, PLC's, variable speed drives, data acquisition, HMI, switch gear, power panels and touch screen technology. Drawings can be issued prior to manufacturing commencement and all assemblies are factory tested prior to shipment.

**Installation**
From the smallest outstations, to the largest floor standing enclosures and multiple sites, Airedale delivers controls projects for a wide range of sites and applications.

**Commissioning**
Airedale provides a full commissioning service carried out by professionally trained and experienced system engineers to ensure that all equipment is installed and set up to function correctly, in order to optimise system performance and improve efficiencies.

**Training**
Airedale system engineers can deliver a full on-site induction to ACIS™ BMS. This is useful for those responsible for daily system operation (if not covered by an Airedale service and maintenance contract).

**Service & Support**
Airedale also provides aftersales support services, such as service and maintenance plans. These contracts offer varying levels of technical support, from basic cover, to complete 24/7 emergency cover and cater for both Airedale and all third party equipment to ensure that systems continue to run smoothly.
Our customers
Our customers
Proven performance

BAE SYSTEMS: EXTENSIVE BMS PROGRAM

BAE is the UK’s largest supplier to the UK Ministry of Defence (MoD), employing more than 34,000 people across fifty different UK locations. Working with Joule Consultants, Airedale delivered an extensive programme of BMS and capacity control upgrades at one of its major Military Air and Information sites.

The project involved retrofitting new EC fans, chilled water valves and upgraded controls to over seventy CRAC units at its Warton site data centre to increase cooling performance and deliver significant energy efficiencies. The upgrades have enabled BAE to achieve annual cost savings of 70-80% in terms of energy costs, equivalent to £350,000.

UNIVERSITY OF PORTSMOUTH

The University of Portsmouth had a requirement for a first class, high density, energy efficient cooling system for its new £2.25m data centre. With Sudlows, Airedale delivered a complete cooling and controls solution which included the installation of several Airedale products and ACIS™ BMS.

ACIS™ BMS delivers intelligent, graphical remote management of the data centre and integrates with multiple protocols to monitor all site elements through one system, including the new Airedale products, SmartCools™, OnRaks™, Airedale Chillers, the external generator, UPS room, water leak detection system and the fire and suppression system. This has resulted in significant energy savings for the university and a projected PUE level of 1.14 (load dependent).

ICELAND: REDUCING ENERGY COSTS

Iceland is a leading high street supermarket chain with 800+ stores across the UK selling frozen and chilled food and groceries. Airedale installed ACIS™ across all Iceland stores with the aim of maintaining specific store environments and achieving significant energy cost savings. ACIS™ offered the perfect solution for Iceland’s requirements for managing building services across multiple and individual sites and was able to easily integrate into existing store systems.

Since system implementation, energy costs in Iceland stores have reduced by up to 10% through tighter, more intelligent levels of control. Based on these results, Iceland has managed to reduce its energy spend by £6,000 per store per annum, therefore creating total energy cost savings of £4.8 million each year.