

Smart Optimisation Solution-SOS Preliminary

Dexdyne brings the climate control landscape in line with the latest medical thinking.

Seamless integration and smart automation of heating and cooling systems now means you can say goodbye to the complexities of traditional BMS solutions. Our unique climate control solution incorporates the latest medical thinking on the health benefits of modulating ambient temperature throughout the day and provides real-time comfort by adapting to occupancy levels and individual preferences.

Unlike traditional systems working on time and temperature settings only, Dexdyne's Smart AI-driven solution optimises your energy usage. This will in turn reduce your carbon footprint and help your organisation to meet its 'Net Zero' targets.

Our solution makes it financially possible for SMEs and other organisations to reduce energy consumption and save money - without compromising on comfort and wellbeing. Dexdyne's intelligent energy control system is hassle-free to install, can be retro-fitted and, once configured, self-regulates in real time 24/7.

This AI-based solution leverages Dexdyne's 20+ years of experience providing Cloud-based remote monitoring and control solutions.

The system learns and remembers the thermal characteristics of each space it is managing. It combines updates from Dexdyne's Cloud server with the latest local weather forecast and expected work start-time of an individual or group. The data is used to calculate accurate heating start-times in order to provide the optimum working environment.

Dexdyne's system modulates the ambient temperature to optimize the health benefits and also monitor air quality

Features & Benefits:

- **Optimises energy usage.**
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- **Reduces costs.**
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- **Reduces carbon footprint.**
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- **Modulate target temperature to optimise health benefits**
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- **Improves air quality in habitable spaces.**
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- **Improves wellbeing and productivity.**
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- **Reduces health-related absenteeism.**
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- **Scalable for multiple sites, spaces and floors.**
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- **Multi-stakeholder dashboard.**
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Applications:

- **Care homes/residential buildings.**
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- **Facilities management.**
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- **Environmental management.**
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- **Restaurants and retail stores.**

parameters such as volatile organic compounds (VOCs), volatile sulfur compounds (VSCs) and carbon monoxides. If air quality falls below specified limits, the system will inform the occupants so that appropriate action can be taken manually or automatically.