

# Fact Sheet



## Energy Efficiency through Intelligent Control

Reducing energy consumption requires knowing both how and when to control. Simply turning off energy consuming devices when not in use is a good start, but there is so much more that can and should be done. Intelligent control starts with knowing which systems in the facility are the most power consuming and then assessing which systems, through better control, can be made more efficient with the best return on the investment.

Implementing a “whole facility” strategy starts with a good understanding of energy needs and the associated costs. Often when looking at energy savings, there is an assumed trade-off with occupant comfort. Balancing the two is part of a good control system design. Occupant interaction with the control system will significantly help when the “decisions” are implemented.



This requires a system architecture that allows multiple systems to share information in a common, interoperable way. Graphical interfaces for system control, changes, and reporting is now frequently performed by web-based interfaces. This type of design can implement a more IT friendly solution, which is more scalable and maintainable across an enterprise. However, the control system must be designed and integrated in such a way that all the control and monitoring points on the network can relate information to each other and to the front end, no matter which supplier or which subsystem they are from.

An intelligent control system based on LONMARK certified devices is the key to gaining the best possible automation strategies. LONMARK has developed the international standards to ensure that devices will work together in an intelligent integrated environment. Each device is tested and certified to ensure that it meets the LONMARK guidelines and will interoperate with any other LONMARK certified product.

Integration is the key to energy efficiency. Using the same occupancy sensor for lighting control, HVAC control, and security monitoring is a very simple and helpful example: One sensor, three functions which cross three separate sub-systems. LON® systems provide a simple, straight-forward architecture for implementing this type of efficient control system.

An intelligent control system following a LONMARK Specification has been shown to save upwards of 30% annually in energy costs over a non-integrated, non-intelligent control system. As an example, a building that has an annual energy bill of \$500,000 can see a bottom line cost savings of \$150,000 ANNUALLY. With continuous commissioning and implementation strategies, this number increases even more. Continuous commissioning is an invaluable part of any energy plan and should be part of any organization’s energy strategy. Implementing an intelligent control system is not a “one-shot-deal”. LONMARK systems allow for future expansion and adaptation without changing architectures, without being locked into a single provider, and allow for fair competitive bidding on the initial install and future project phases.

*Visit [www.lonmark.org/connection/solutions/fact\\_sheets](http://www.lonmark.org/connection/solutions/fact_sheets)*

# Fact Sheet



The sign of a good strategy is in the future-proof of the system design. LONMARK has a proven track record. Turn to LONMARK for the know-how. LONMARK's 600+ members provide a wide variety of control system hardware, software, and integration solutions for practically any application:

- 750 certified interoperable products
- Over 350,000 systems installed
- Over 100 million installed devices
- Full enterprise IT system support
- Master System Integration expertise

LONMARK is helping the green movement achieve the energy efficiency requirements of today. Looking for guidance in taking advantage of open, interoperable, integrated systems? We can help. LONMARK offers the following resources and services:

- Complete listing of certified interoperable products
- Training programs for organizations looking to implement a strong energy efficiency program through intelligent control
- Educational seminars for conferences, trade events, or corporate teams
- Sample specifications for open systems projects
- Guidance for developing a solid energy control master plan
- Support in securing multiple competitive bidders for your projects
- Technical support for LONMARK product certification
- LONMARK Certified Professional Credentialing program and directory
- References and Case Studies

As a non-profit trade association dedicated to helping organizations change the way they think about energy control, LONMARK is eager to help. Our worldwide team of affiliates and support staff are at your disposal.



LONMARK International  
550 Meridian Avenue  
San Jose, CA 95126 USA  
Tel: +1 408-938-5266  
[info@lonmark.org](mailto:info@lonmark.org)