

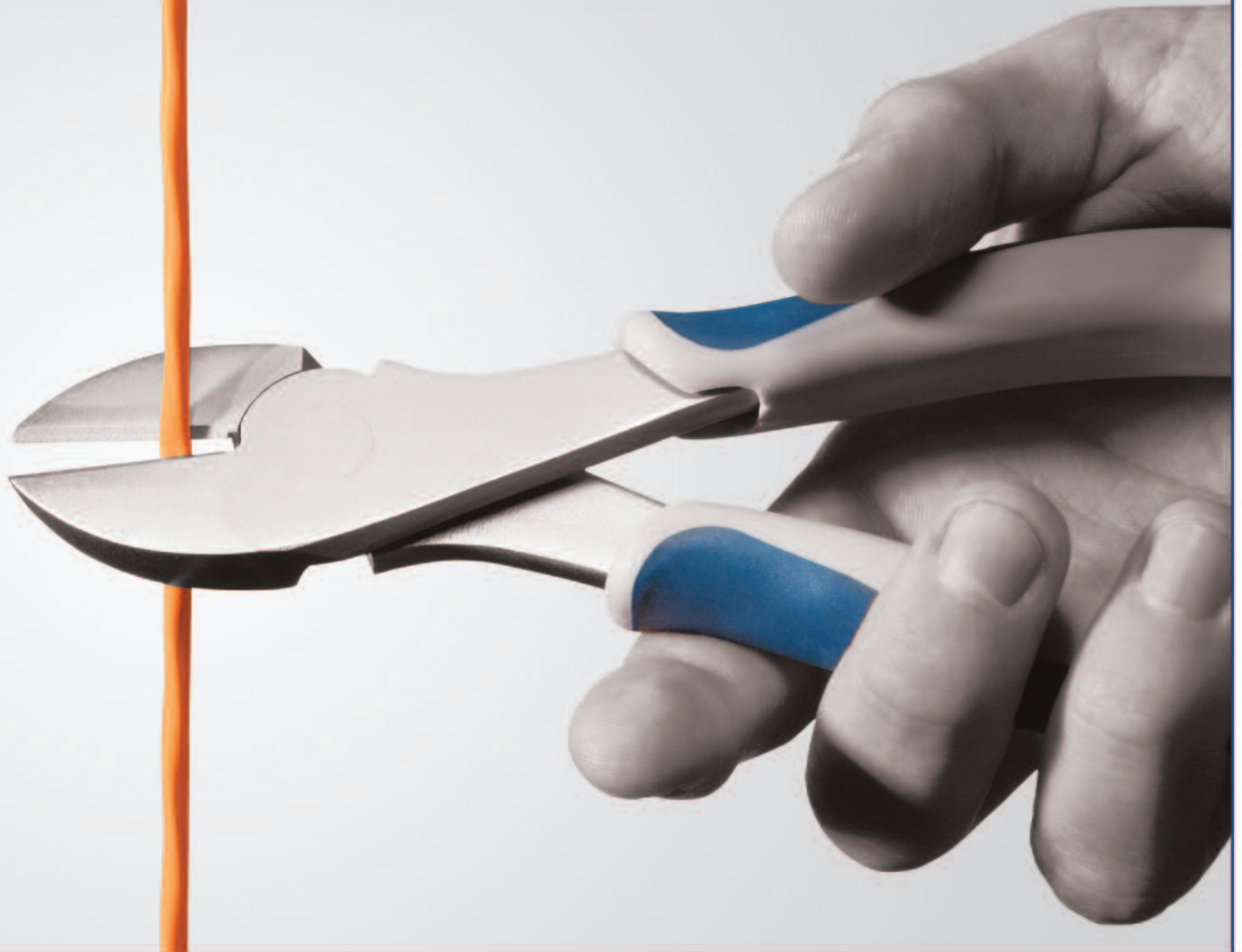


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**DISTECH**  
CONTROLS™

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**Wireless Battery-less Solution**  
for Open Building Automation Systems



## Go Wireless. Stay Open.

The Distech Controls wireless battery-less solution allows for wireless communication between wireless battery-less sensors and switches and our controllers, thus preserving an open building automation system all the while benefiting from the advantages of wireless communication.

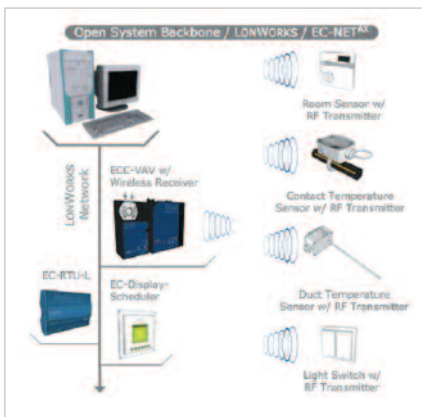
With a variety of wireless terminal accessories, for lighting, temperature, humidity, fan speed controls, occupancy and many more, the cost saving opportunities are unlimited for new and retrofit projects. Using energy harvesting, these wireless terminal accessories are battery-less, eliminating the need for any maintenance.

### The Power of Energy Harvesting



Our wireless battery-less devices are powered by different kinds of ambient energy - energy harvesting technology - such as light and vibration. Energy harvesting provides ecological compatibility, eliminating batteries and the use of cable material (copper, plastics etc.). Energy harvesting also allows for an important quality improvement, making these devices virtually service-free.

### Stay Open



Distech Controls offers wireless communication on an open platform. Our controllers are enabled with wireless receivers, delivering room information to the network via LONWORKS® and your choice of platform: flat LONWORKS or EC-Net powered by the Niagara<sup>AX</sup> Framework™ for web-based, LONWORKS and BACnet® compatibility.

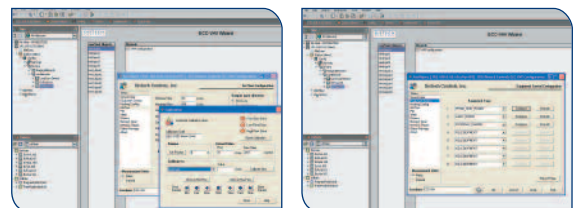
- The wireless, battery-less sensors are grouped around a controller with wireless receiver on-board, forming a star sub-network
- The controller processes the device's information as an input to the application control scheme
- The controller acts as a communication hub and relays data to the higher level LonWorks or EC-Net control network

All wireless inputs can be configured through Distech Controls' controllers' LNS plug-ins, EC-gfxProgram or EC-Net wizards. Step-by-step configuration of all the controller's parameters, including wireless options, is offered through a highly user-friendly interface.

### A Proven Solution

The combination of efficient transmission with low collision probability and high interference protection, mean we are able to generate a surprisingly long-range signal with high efficiency.

- Ultra-low energy consuming radio transmissions
- Low collision probability through very short telegrams
- High interference protection by redundant asynchronous transmissions in random intervals
- Secure transmissions with 32-bit sender ID
- A technology that is governed by a standards-setting association, the EnOcean Alliance
- Frequency accepted world-wide

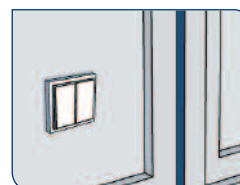


## A Truly Unique Wireless, Battery-less Solution.

This wireless battery-less solution offers multiple benefits for building automation, from cost reduction, to flexibility and adaptability.

### Flexibility of Applications - the devices requiring no drilling or external wiring to be installed

- Readily mounted on any surface: concrete buildings, difficult construction materials (brick, glass, stone)
- Preserve architecture and materials, with no drilling or opening of walls
- Completely eliminate expensive wire conduits
- Control spaces where sensor placement is not possible with traditional wired sensors such as atriums, greenhouses etc.
- Optimize control in large open spaces with localized needs, such as office cubicles or retail spaces



### Cost and Time Reduction

- Eliminate expenses for wiring plans, wire and conduit installation, electrician fees and other associated labor costs, at installation and at retrofit of space
- Save time and cost associated with re-running wires when retrofitting or changing space layout
- Eliminate design errors - initial sensor placement can be corrected
- Easy, low-cost relocation when room configurations or floor plans change
- Prevent unexpected costs when opening walls
- No disturbance to tenants caused by noise, dust etc. during replacement or retrofits
- Improved temperature control and occupant comfort - optimize sensor placement to get the best reading after commissioning or at any time throughout your building automation system's lifecycle

### A True Green Building Solution

- Energy harvesting allows use of available energy
- Eliminate batteries
- Reduce cable and wiring materials (copper, plastics etc.)
- Preserve building envelope

## Distech Controls Offers a Wide Array of Wireless, Battery-less Sensors and Switches Including:

- Light switches for one or two outputs



- Room temperature sensor



- Fan Speed



- Window/door contact



- Cable temperature sensor



- Outside light sensor



- Duct temperature sensor



- Occupancy detection sensor



# Innovative Solutions for Greener Buildings

For more information concerning Distech Controls' building automation solutions :

Distech Controls – Head Office

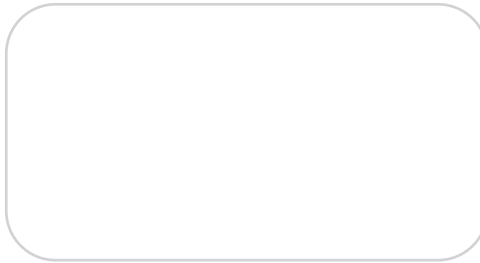
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Distech Controls Authorized Open Systems Provider



Distech Controls is registered ISO 9001

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