enteliMESH™

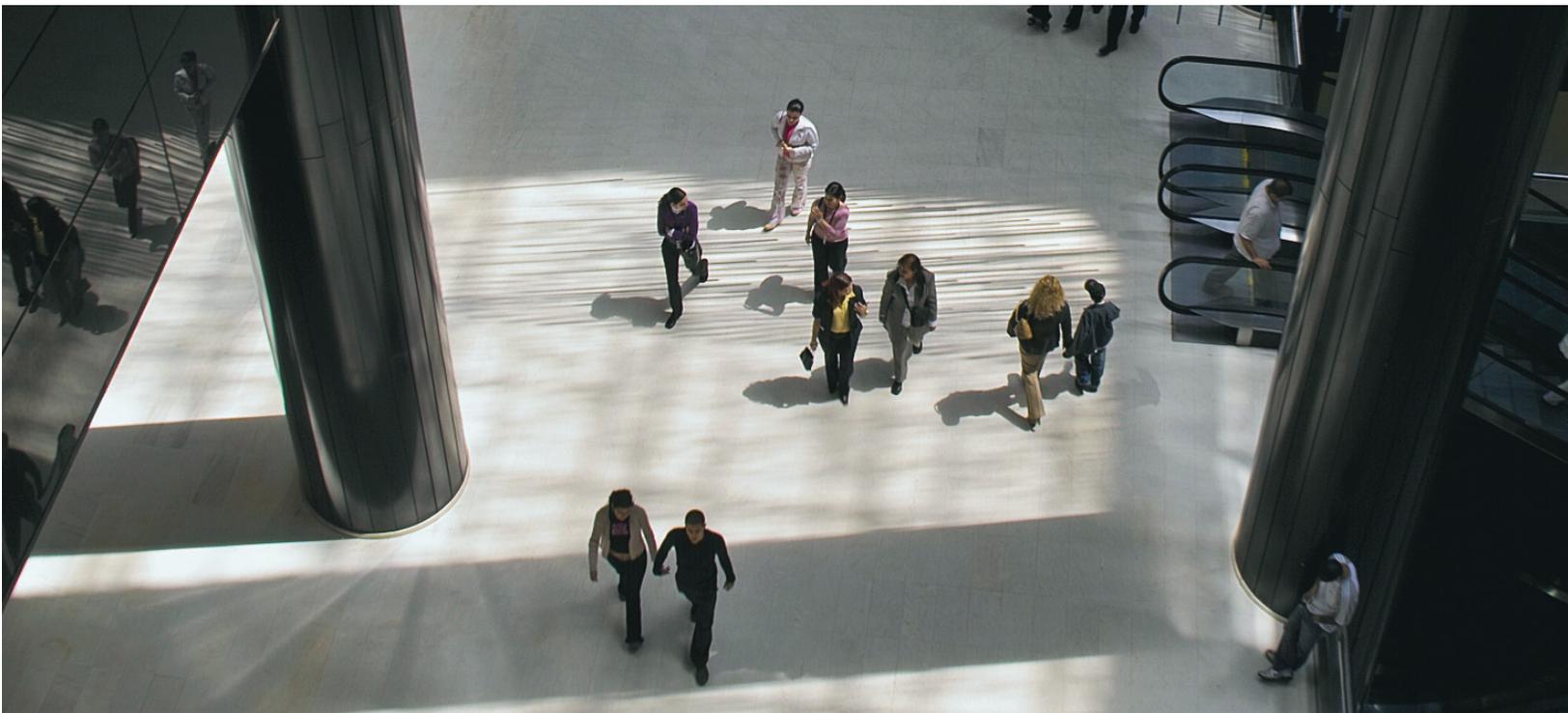## CONTROL SYSTEM | WIRELESS MESH NETWORK

Delta™
CONTROLS

enteliMESH™ Control System | Wireless Mesh Network

Temperature Monitoring

Introducing enteliMESH

enteliMESH is an innovative wireless mesh technology developed by Delta Controls for use in both unitary equipment control and monitoring of remote sensors.

Delta Controls has developed industry-leading wireless sensor technology for use in a building environment. Our wireless technology is built upon the open ZigBee protocol, and we have applied it to temperature and humidity sensors.

Utilization of wireless sensor technology reduces overall installation costs, and also reduces costs associated with reorganization of workspaces during tenant improvements. Aligning with Delta Controls Earthright initiative, our wireless technology reduces the overall carbon footprint of a building by not requiring the use of copper cabling during installation. enteliMESH exemplifies Delta Controls' focus on innovation.

enteliMESH Features

Low Cost: enteliMESH is designed to be cost effective. The combination of wireless networking along with battery powered sensors used in the enteliMESH system results in a significant reduction of labor and installation costs. The enteliTOUCH is used for an interface to the system, which means a software package and dedicated PC are not required.

Flexible: enteliMESH is designed to be flexible. With wireless sensors you have the ability to adjust your installation when it changes. Space usage changes often. With enteliMESH change is easy.

Easy Set Up: enteliMESH is quick and easy to set up. Devices are added to the network via DIP switches on the product. The switches are also used to visually identify which wireless network it is communicating on. Installation times are significantly reduced compared to a wired solution.

Reliability

enteliMESH products use MESH technology to make the wireless network robust and reliable. The network is self-healing and self-routing, allowing the network traffic to choose the best path, easily adapting to network changes.

BACnet Integration

The enteliTOUCH™ Building Contoller is a native BACnet device that meets both the BACnet Building Contoller (B-BC) and BACnet® Operator Display (B-OD) profiles. The enteliMESH data is brought into a BACnet network directly through the BACnet/IP-capable enteliTOUCH Building Controller.

Existing Site Installation

enteliMESH Applications

Wireless Zone Control: enteliMESH can be used to control unitary equipment such as radiant heat, unit heaters and ventilators.

Temperature Monitoring: enteliMESH is perfect for monitoring temperature and humidity. With wireless sensors, you have the freedom to move the sensor to an optimum location. Combined with an external thermistor, enteliMESH gives you total control without compromise. Common applications include Data Centers, cold storage, and museums.

Existing Site Installation: enteliMESH is well-suited for retrofits or system expansion within existing buildings. Historic buildings are another example where enteliMESH has strong advantages over traditional wired systems. Sensors can be placed where needed without wondering how to get a wire to that location. There is nothing to be repaired, fixed, or covered after the installation.

This is particularly important when dealing with architecturally sensitive areas. Getting wires to these areas can be costly. enteliMESH can be installed on solid concrete, marble walls or even glass.

enteliMESH Wireless Coordinator

enteliMESH Wireless Coordinators are an important part of any wireless network. The enteliTOUCH fills this role as an interface to the wireless network. No dedicated computers or other pieces of software are required to set up or interact with the enteliMESH system. This makes enteliMESH ideal for small sites such as strip malls, small office buildings, convenience stores, or spaces where tenant retrofit is common. Other useful applications are sites where monitoring is required.

enteliMESH Sensor

The enteliMESH system uses battery powered sensors for temperature sensing. In each enteliMESH sensor there is an external input for monitoring remote temperature via thermistor. Common applications include Data Center Server Racks, cold storage boxes, cubicle areas or exterior mounted sensors.

enteliMESH Application Controller

enteliMESH has an application controller that can be used as wireless I/O. This allows the controller to be installed in a variety of applications where running traditional copper wire just isn't feasible and costly. Common applications include Theaters, Hotels, Motels and Portable buildings.

enteliMESH Repeater

Wireless networks are subject to interference from a variety of different sources and each site is unique. Different construction materials and layout directly affect the strength of the wireless network.

With enteliMESH Repeaters you can make your network strong and robust. They give the other devices on the network alternate paths through the network. Combined with enteliMESH Application Controllers your wireless network is a self-healing, self-routing MESH network.

To learn more about enteliMESH or any of Delta Controls' enteliSYSTEM™ products, please contact us online at deltacontrols.com