Maximize **energy efficiency** on your campus **today!**

Magnum Innovations

Enhance comfort. Increase efficiency. Limit maintenance.

Intelligent **Residence Hall**
Energy Management **Solutions**

At Magnum Innovations, we recognize the pressure colleges and universities are under when it comes to reducing energy consumption on campus. When it comes to a campus's energy costs, unnecessary lighting, cooling and heating for hours can pose a significant drain on the bottom line. Magnum's innovative energy management solution, which utilizes self-powered wireless technology, allows facilities staff at these schools to monitor, manage and control a school's energy consumption. Taking control of, and optimizing operational systems, can result in energy savings between 25 and 45 percent.
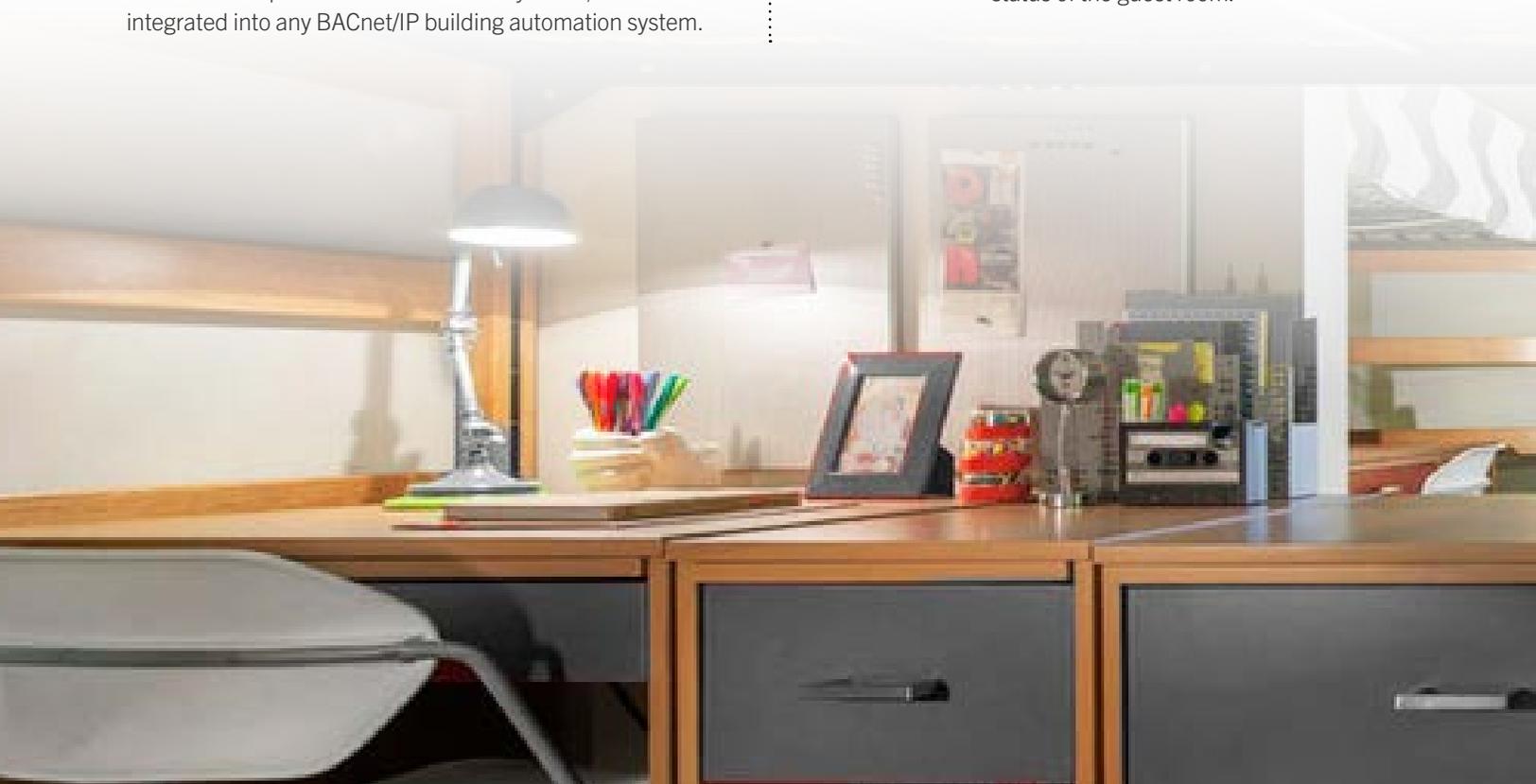

No Existing Thermostat

By pairing the HVAC Control Board (M9-MTB) with our wireless, battery-free Room Controller (M9-RPW), your University can now provide the ability to enhance the student's comfort, while maximizing energy efficiency. This solution is compatible with most HVAC systems, and can be integrated into any BACnet/IP building automation system.

Intelligent 24V Thermostat

Magnum's Intelligent 24V Thermostat (Mx-TS1) controls the heating and cooling unit based on your property's desired presets. When paired with a Key Card or Occupancy Sensor, the thermostat will be controlled based on the occupancy status of the guest room.

HVAC Controls & Wireless Sensors

Wireless Lighting Nodes and Controls

Wireless Remotes

Wireless Plugload Controllers

Magnum Gateways
Access Point | **BACnet/IP** | Amazon AWS

Software Integration

Existing BACnet/IP BAS
VenergyUI (Desktop & Mobile)
Cardinal (Amazon IoT)

BACnet/IP
Integration

Amazon IoT
Integration

Building Automation Software: BACnet/IP Integration & VenergyUI

With implementation of our BACnet/IP Gateway (Mx-EBOX), we can tie into any existing BACnet/IP building automation system. Venergy UI is an affordable and customizable building automation solution that allows for increased comfort, greater flexibility and convenience for both building owners, managers, facilities staff and occupants. The Venergy UI platform utilizes leading edge wireless and battery-free technology and includes HVAC, plug load and lighting control solutions. The easy to use, PC based interface enables room based, floor based, entire building and even campus wide monitoring and control capabilities.

Efficiency, Everywhere.

Reach a new level of efficiency with LED lighting upgrades across your entire College / University. This solutions provides energy efficient bulbs, fixtures and controls that can adapt to any indoor or outdoor environment. We are able to customize your design, tying it back into your existing Building Automation System (BAS), or hosting your system on a customized Amazon Web Services Platform. Our flexible, scalable and affordable technology keeps your property efficient and money in your pocket.

> "Since installing a system on one floor and comparing that with an uncontrolled floor we have seen occupied reductions in kilowatt hours in the range of 40 percent. During the winter break reductions reached 90 percent. We intend to expand this effort to our existing inventory as well as into new projects."

EDWARD KELLER | UNC GREENSBORO
ASSOCIATE DIRECTOR FOR OPERATIONS