

University campuses are complex organizations incorporating many different building controls, both in terms of types of devices and in terms of manufacturers of the products. A typical university campus might have multiple types of fire alarm panels added over different periods. In addition the buildings on a campus can range from a historical building to a modern biotechnology laboratory. The duty of a campus facilities manager is to bring all of these diverse products into a common central building control system to monitor energy usage, maintain safety of the occupants, and provide the necessary learning environment for students, faculty and staff. Sierra Monitor's **FieldServer Technologies gateways** are used by many universities to bring these diverse devices into a common building automation control system.



Institutions of higher education seek more control over the costs and operation of the multiple buildings and facilities found on each campus. Often, due to age of a building, capital available due to endowments, size of the building or many other reasons a university facility manager will often find that different buildings on campus present different challenges. The campus might have 3 or 4 different addressable fire alarm panels spread throughout the campus. For instance, they might find that one group of buildings has a long term history using major manufacturer's HVAC system; yet another group of buildings might use a different manufacturer's system. One building might have the latest in digital controls while another is lucky to have any controls at all.

Due to the wide variety of laboratories found on campus, plus gases used in medical laboratories and hospitals, **Sierra Monitor's gas detection systems** are used to detect hazardous gases such as combustible gas, oxygen deficiency and toxic gases before they reach dangerous levels. The data communications capabilities of these hazardous gas detection systems enable them to easily interface to building automation and central control systems.

Sierra Monitor's Gas Alarms/Monitors are used in many school systems to monitor for levels of combustible gas and carbon monoxide in school buses, both in the engine compartment and the passenger compartment.