HOW TO OPTIMIZE SMOKE DETECTION AND MINIMIZE DISRUPTION IN LARGE, BUSY BUILDINGS - PART 2

Switching to addressable aspirating smoke detection can help revolutionize how fire safety is managed and enhance safety.

These examples show how large facilities, each with their inherent challenges, use the technology to improve the operation..

PROTECTING PATIENTS IN HEALTHCAREPROTECTING PATIENTS IN HEALTHCARE

Sonora Behavioral Health, a psychiatric facility in Tucson, Arizona, wanted to reduce the disruption caused by the annual inspection of its existing traditional spot smoke detection system. The process was time consuming and arranging access to patient rooms required careful planning as vulnerable patients had to be protected from the stress of the visitors and the loud noise from the testing. Changing to VESDA-E VEA has transformed the process as the centralized maintenance, inspection and servicing means that patient rooms no longer need to be accessed for routine maintenance. The detection points can also be fully concealed, reducing the risk of patients tampering with them.

### PCUTTING ALARM MAINTENANCE COSTS A CORRECTIONAL FACILITY

California replaced its traditional smoke detection systems with VESDA-E VEA aspirating smoke detection to eliminate recurring nuisance alarms and reduce the time on site. With many prisons in California located on dusty plains or in the desert, dirt build-up presents a serious problem to smoke detection. The detectors require constant cleaning to ensure reliable operation but accessing them is costly and time consuming. It is estimated that cleaning all the smoke detectors in a prison can cost up to $120,000 per year. Switching to VESDA-E VEA helped the facility overcome the issue since the detector provides automated end-to-end system integrity monitoring (sampling points, tube networks), automated maintenance (cleaning) of sampling tube networks and centralized smoke testing at the detector unit without the need to access through the restricted areas or air ducts. The system also simplified monitoring and reduced maintenance costs to just five percent of those of a traditional smoke detection system

GUARDING EXPENSIVE MEDICAL EQUIPMENT

Central Diagnostics, a medical practice in La Romana, Dominican Republic, has invested in the latest medical equipment across all disciplines to offer the best care for its patients. It needed an advanced smoke detection system with the fastest detection available to protect its staff, patients and the significant investment in the equipment. It chose VESDA- VEA because of its proven track record and detection accuracy which facilitated quick responses to threats. Additionally, with medical equipment taking up the majority of the clinic's roofline, electrical equipment, such as smoke detectors, could not be installed in the area. This was no longer an issue with VESDA-E VEA. The flexible plastic tubing made sampling points quick and straightforward to install, and they could be placed away from the medical equipment, without needing to use valuable ceiling space.

CONCLUSION
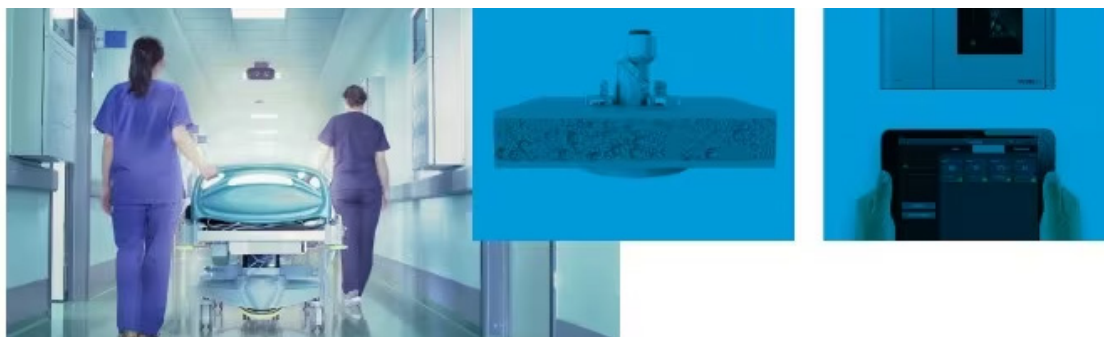
vPoint-addressable aspirating smoke detection can offer several advantages compared to traditional smoke detection, especially in large buildings with multiple compartments and restricted areas. Xtralis' VESDA-E VEA provides unrivaled reliability, thanks to the full supervision of tubing and sampling detection, enabling better control over fire safety across a facility. By centralizing testing and maintenance, facilities managers can effectively reduce disruption to normal operation, as there is no need to access individual sampling locations. Limiting time on site is crucial for safe operation in many demanding applications and when additional restrictions are enforced, for example when limiting contact to prevent contamination. You can find out more about using point-addressable aspirating smoke detection to improve operations here.

To learn more about how to Optimize Smoke Detection and Minimize Disruption in Large, Busy Buildings, please refer to this article.

Honeywell