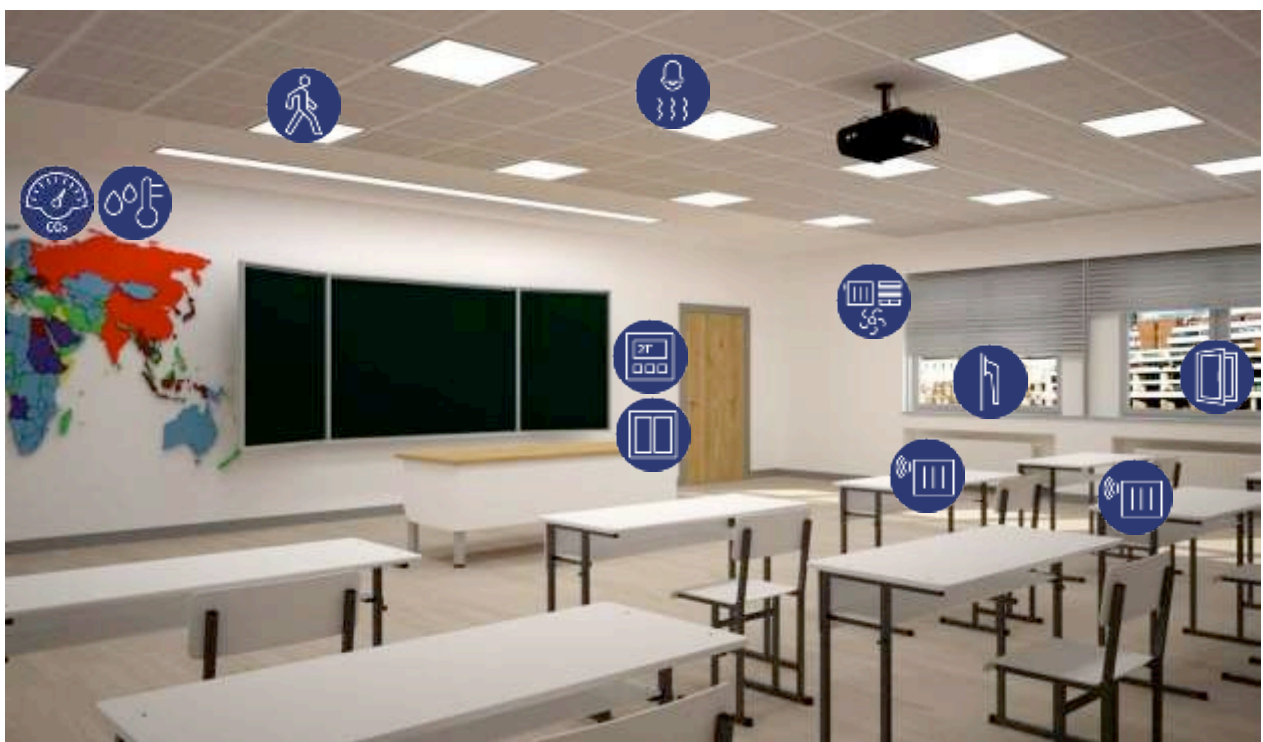












# Use Case School Building



-  Batteryless wireless switches control lighting and shading
-  Batteryless wireless temperature and humidity sensors govern HVAC systems
-  CO<sub>2</sub> sensors monitor indoor airquality
-  Occupancy sensors trigger lighting and climate control systems
-  Networked smoke sensors set off fire alarms to trigger emergency response
-  Batteryless wireless window contacts monitor window status
-  Batteryless wireless door/window handles monitor door/window status
-  Actuators control heating, ventilation and shading
-  Wireless actuators control radiators
-  Batteryless wireless control units allow for optimal climate conditions and maximum operating comfort





## Use Case School Building

### And these are the benefits for

#### Architects

- Maintenance-free, interoperable wireless sensors
- Freely positionable products which can be placed on glass, stone, wood or furniture as required
- Flexible room configuration

#### Specifiers

- Simplified planning and high flexibility through freely positionable devices
- Interoperable products
- Compatibility with other building automation systems (KNX, LON, BACnet, TCP/IP)

#### System integrators / Contractors

- Speedy, flexible installation & system start-up
- No cabling, no drilling, no noise/dust/dirt
- Simple retrofit during undisturbed operation

#### Investors / School Authorities

- Reduced cost of installation and operation
- Flexible space planning and easy restructuring
- High energy savings
- Interoperable and scalable standard solutions

#### Facility Managers

- Flexibility, no maintenance needed
- Optimized servicing
- Effective manpower use
- Increased safety levels
- Faster reaction to system faults
- Reduced noise/dust/dirt
- Interoperable and scalable standard solutions

#### Facility users

- Enhanced comfort
- Pleasant learning environment with good air quality

### References



Zentrum für Virtuelles Engineering ZVE (Germany)



Sir Isaac Newton Academy (UK)



Georgia Institute of Technology (USA)



University of Western Ontario (Canada)