











**Use Case Residential Building**



-  Batteryless wireless switches control light and shading
-  Batteryless wireless switches perform remote-control functions
-  Occupancy sensors trigger lighting and climate control systems
-  Wireless connectors control and monitor household appliances
-  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
-  Batteryless wireless control units allow for optimal climate conditions and maximum operating comfort
-  Wireless actuators control radiators, room controllers govern underfloor heating
-  Sunblind actuators control the sunshade elements



## Use Case Residential 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

#### Investors / Property Owners

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

#### Facility users

- Increased safety levels
- Enhanced comfort
- Simple retrofit
- Freely positionable products
- Cost-effective SmartHome solutions
- No cabling, no drilling, no noise/dust/dirt

### References



Empowerhouse,  
Washington D.C. (USA)



B10 Active House  
(Germany)



Shanghai Villa (China)



Weberhaus  
(Germany)