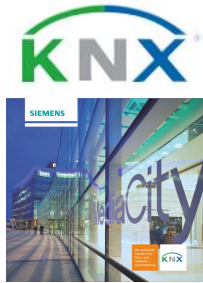


High-end application

Synco™
& GAMMA

Conference Room – Room Automation

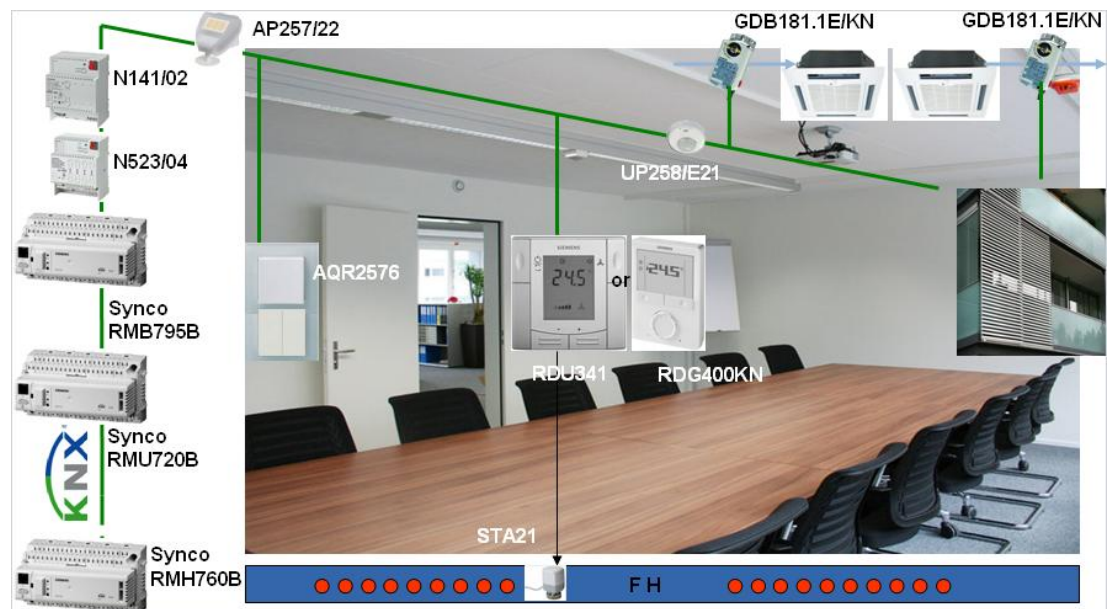


VAV + floor heating with light, blinds control according to occupancy for large office or conference rooms

Highlights

- Fully integrated VAV application with temperature, CO₂ and air volume control
- Automatic data exchange between room HVAC and the primary plant
- VAV controllers to optimize the air system
- Remote control of individual rooms or room groups

Room setup



- **RDU341 or RDG400KN, Room thermostat:** The room thermostat measures the room temperature and calculates the heating / cooling demand which is sent to the heating / cooling controller and to the VAV controller. It also controls the valve actuator STA21 of the floor heating.
- **GDB181.1E/KN, VAV controller:** The GDB... controls the VAV dampers. Its air volume setpoints are shifted according to the air demand from the room thermostat.
- **AQR2576, air quality sensor:** The AQR2576 sends the air quality data to the air handling controller which controls the fresh air quantity of the supply air. The AQR offers two digital inputs to connect a standard wall switch to operate lights and blinds.
- **UP258/E21, presence detector:** The UP258 detects occupancy in the room and measures the brightness. These data are distributed to the room thermostat and the KNX/DALI gateway.
- **N141/02, KNX/DALI Gateway:** The N141 transfers the KNX signal to the DALI bus to switch and dim the lights. In the other direction it sends status information such as the failure or operating hours of a lamp to the KNX bus.
- **N523/04, blind actuator:** The N523 is controlled by the weather station and drives the blinds and its slats to the required position.
- **AP257/22, weather station:** The AP257 measures the outside temperature, brightness and windspeed and calculates drive commands for the blind actuator.
- **RMB795B, central control unit:** The RMB795B is the room group manager which provides individual