



# Room Automation for Hotels: Efficient and Comfortable

The LonWorks® Platform-based technology room automation system from Kieback&Peter ensures the highest levels of energy efficiency and comfort in the rooms and suites of the new Hotel de Saxe opposite the Frauenkirche in Dresden.

The "Neumarkt" in Dresden used to be one of Europe's most beautiful city squares. Following the reconstruction of the Frauenkirche, the area around the square is now also being rebuilt. The Hotel de Saxe, successor to the historical Hotel de Saxe that stood on the same site between 1786 and 1888, is one of the first buildings to be built. The 4-star hotel, run by the Steigenberger Group, was opened on 3 April, 2006.

The facade reflects the hotel's historical connection and befits the splendour of the original square. Inviting arcades lined with shops can be found on the ground floor. Behind the elegant facade is a five storey business hotel designed by IPRO Dresden with seven conference/seminar rooms, a restaurant with a terrace on the "Neumarkt", a bar and a fitness center with sauna and steam bath. The 185 rooms, including seven suites, are grouped around a glass-covered hall.



The room automation system in the rooms and suites is based on LON. A total of 189 DDC110-L2 room control modules with LCD display from the technology range are installed in the hotel. The DDC-110-L modules work independently and are equipped with display and control functions. The DDC110-L2 room control module can be used to control radiators and/ or cooling ceilings and for controlling heating and cooling with fan coils. The display shows the room temperature, room set-point, day/night or standby operation, messages such as "window open", "dew point alarm" and the status of the ventilation. The room set-point and ventilator options – stages 1 to 3 and Auto – can be set.

By adjusting conditions to accommodate guests' individual preferences, the room automation system ensures the desired degree of comfort in each room and saves energy at the same time.

Information from each room is sent over the LON network to the DDC4000. Nine DDC4200 automation stations with control function control the heating, ventilation, air-conditioning, sanitary system (hot water generation) and smoke extraction.

An Ethernet network guarantees a high rate of transmission for the transfer of data between the automation stations and the superordinate Neutrino GLT building management system. Energy meters are connected to the system via M-bus.



The operating performance of the system is documented on the Neutrino GLT in tables, diagrams and trend curves. Data for each room can also be displayed.

The Neutrino GLT is equipped with the SM42 software module that connects the GLT with the "Fidelio Opera" hotel booking system from Micos. When the booking system signals that a room is unoccupied, all functions in that room are automatically switched to the energy saving mode. When a guest is expected, the system switches the status to occupied and the room control module ensures that the heating and ventilation are activated in time for the guest's arrival. The guest can therefore enjoy the view of the Frauenkirche from the comfort of his or her own hotel room.

## Contact:

Hans Symanczik  
Kieback&Peter GmbH & Co. KG  
symanczik@kieback-peter.de