

### **KNX Award 2008**

*Category: International*

*Winner: Hitit Aktif Ltd. (Turkey)*



## **Modern technology makes oriental dreams come true – KNX room automation at the Kempinski Hotel in Antalya**

**At Kempinski Hotel The Dome, in Antalya, Turkey, guests are spoiled 24 hours a day – and not just by the hotel staff. Thanks to the hotel's sophisticated, highly efficient building engineering system, every stay there is a real experience. This year, the building won the KNX Award, category: International.**

The name Kempinski is synonymous with top-class hotels right across the globe – 60 of them in total. To maintain its reputation, the chain is constantly investing in providing a high level of comfort for its guests. Kempinski hotels have a distinctive style and character that sets them apart from other hotels. In the tourist paradise of Antalya in Turkey, a new luxury hotel complex was built in 2006 that simply exudes oriental charm.

Each of the hotel's 157 rooms boasts a high-comfort room automation system featuring KNX technology. Hitit Aktif Ltd., of Ankara, was responsible for the integration of the system. The investor and the hotel operator opted for KNX networking because the system allows a high level of user comfort, helps to optimise energy consumption, and is not linked to any specific manufacturers, thus enabling them to protect their investment and their competitive position in the long term.

### **Comfort from the word go**

From the moment guests enter their room, they are welcomed with pleasant lighting in the entrance area, and key information relating to their stay appears on the television screen. All of the room's comfort functions are activated by the reception staff via an LCD touch pad when guests check in, and deactivated again when they check out. Upon activation, the air conditioning switches from standby to comfort mode, to ensure the right temperature in the room. Guests can determine for themselves the perfect temperature for their rooms, via a small display in their room which also shows the current time and the actual and target temperatures. The thermostats for regulating the ventilation are parameterised by the hotel technician. All of the functions remain active for as long as the guest's hotel card is in the special holder, which is connected via a binary input with the bus system. Only when guests leave their room are the functions deactivated in order to save energy.

Every room also has a 4-way KNX multifunction switch for controlling the lighting. This means that guests can also set the level of brightness in their rooms from their beds. In addition to switching the lights on and off, they can also choose between four different predefined dim settings. In the bathrooms, an emergency call function ensures guests' safety. This facility is directly linked via KNX with reception, where, in case of emergency, the respective room number is displayed and an acoustic

signal is emitted. In these ways, comfort and safety are assured 24 hours a day. The LCD touch screen keeps the team at reception constantly informed about the control status in each room. When the next shifts arrive, they can thus quickly obtain an overview of the situation. All room functions can also be monitored and controlled via a PC screen in the equipment room. Here, the target values for the room temperature controls can also be specified. This allows a very large amount of energy to be saved, without guests' comfort being impaired in any way.

### **A full range of golf and spa facilities**

The benefits of the KNX system and its technically mature, standardised technology can also be enjoyed by guests in all of the park's 18 villas, which are also connected to the bus system. In all of the villas' tastefully-decorated rooms, the lights can be dimmed to create a variety of moods.

For most of the guests at the Kempinski Hotel in Antalya, the focus is either on relaxing in the spa area, or enjoying some golf. The hotel grounds, which extend over some 1,250,000 m<sup>2</sup>, include two golf courses, thus ensuring plenty of variety for players. In the spa, guests have five different saunas to choose from. The Ottoman hammam is a real treat for body, mind and soul, whisking guests away on a sensual journey into the world of the 1001 Nights. The spa area also includes a thalassotherapy centre, open-air massage pavilions, and a spacious outdoor bathing area with a lagoon, in which the hotel's typical Seljuk architecture can be seen reflected.

### **Parties involved:**

Owner: Ali Akkanat Holding A.Ş., Esenyurt/Istanbul, Turkey

Architect: Artmim, Antalya, Turkey

Electrical design: Hitit Aktif Ltd., Ankara, Turkey

KNX system integrator: Hitit Aktif Ltd., Ankara, Turkey

Info: Hitit Aktif Ltd., T-06700 Ankara, Turkey, [www.hititaktif.com](http://www.hititaktif.com)

### **Box 1**

Use of KNX in this project

- For hotel guests: high level of comfort in all rooms, tailored to the individual needs of each guest; lighting mood can be set at the press of a button.
- For the hotel operator: efficient energy management, as energy consumers are switched off or shut down automatically as soon as a room is no longer in use.

### **Box 2**

Technical highlights of this project

- The room automation in each room can be operated from the reception, e.g. for switching the fan coil from night-time to comfort mode. Guests can thus be greeted with a high degree of comfort as soon as they enter their room.
- The light fixtures in all of the 18 villas in the park are linked to the KNX system. The lights can be dimmed in the individual rooms to create a variety of atmospheric lighting scenarios.

**Photos:**



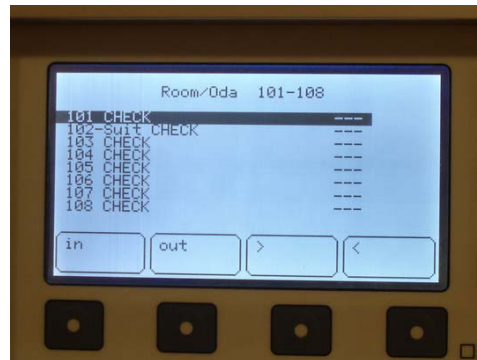
**Figure 1. The Seljuk architecture of Kempinski The Dome gives the hotel on the Turkish Riviera a very special atmosphere. Source: Hitit**



**Figure 2. Luxurious rooms with state-of-the-art technology allow guests to define their perfect comfort settings. Source: Hitit**



**Figure 3. The hotel complex also includes 16 villas and two royal villas. Source: Hitit**



**Figure 4. Via this LCD touch screen, staff can remotely operate all important room automation functions. Source: Hitit**

**KNX** Association is the creator and owner of the **KNX** technology – the worldwide STANDARD for all applications in home and building control, ranging from lighting and shutter control to various security systems, heating, ventilation, air conditioning, monitoring, alarming, water control, energy management, metering as well as household appliances, audio and lots more. **KNX** is the worldwide STANDARD for home and building control with a single, manufacturer independent design and commissioning tool (ETS), with a complete set of supported communication media (TP, PL, RF and IP) as well as a complete set of supported configuration modes (system and easy mode). **KNX** is approved as a European (CENELEC EN 50090 and CEN EN 13321-1) and an International standard (ISO/IEC 14543-

3). This standard is based upon more than 18 years of experience in the market including its predecessors, EIB, EHS and BatiBUS. Over 140 member companies worldwide from different application domains have almost 7000 **KNX** certified product groups in their catalogues. The **KNX** Association has partnership agreements with more than 30,000 installer companies in 80 countries.

[www.knx.org](http://www.knx.org)

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**Pictures can be downloaded at:**

<http://www.knx.org/knx/knx-projects/knx-award-projects/>