

Penthouse at the Zurich lake with KNX Complex wishes rationally realised by EIBROM



Konnex Association

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View into the spacious penthouse with view on the Zurich lake

The company EIBROM, which achieved the third place in the last edition of the KNX Award, succeeded in again convincing the jury in 2004 with this project. Not only were elaborate functions smartly realized, the system integrators Jürg and Roland Keller also designed a tool to carry out a KNX project in a highly efficient way, for which they were awarded a special distinction from the jury.

On the roof of his new industrial building the owner built a 350 m² large flat, which is surrounded by a 520 m² terrace. The apartment complies with the state of the art of home engineering. The different application domains are interlinked. In this way, the entire house can be comfortably controlled from a central touch panel or from externally. Scenes allow to quickly set the desired living comfort. Cameras and an alarm installation ensure the necessary security. Moreover, several fault messages can be displayed and appropriate signalling was realised. EIBROM offered advise to the owner on the functions and optimised the project by a free selection of the KNX devices.

Advantage of KNX in this project

- Linking of all application domains and subnetworks to one entire installation with central operation and access via internet
- High comfort, e.g. by scenes and high security for the building owner via KNX security installation
- Efficient realisation of the building owner's wishes and quality control via use of the project tool with interface to ETS

Projectnumber: W1/04/E

Country: Switzerland
Year of Construction: 2004

Area of Application

■ Residential buildings

- Family home
- **Apartment block**
- Residential care home for senior citizens
- Residential care home for the disabled
- **Functional buildings**
- Office block / public office
- Commercial enterprise
- Retail office
- Restaurant and Hotel
- Cultural Cultural building (cinema, theatre, museum, etc.)
- Clinic / hospital
- Educational building (school, college, etc.)
- Leisure facility (sports center, spa, etc.)
- Industrial building
- Other

Facilities

- **Lighting**
- **Shading/Light control**
- **Heating, ventilation, air conditioning**
- **Alarms**
- **Technical monitoring**
- Energy management
- **KNX visualisation**
- **Interfaces to other systems**
- **Remote monitoring/-operation**
- **Other application**

Scope

- **Number of areas/lines: 1/2**
- **Number of KNX devices: 110**



Distinction for:

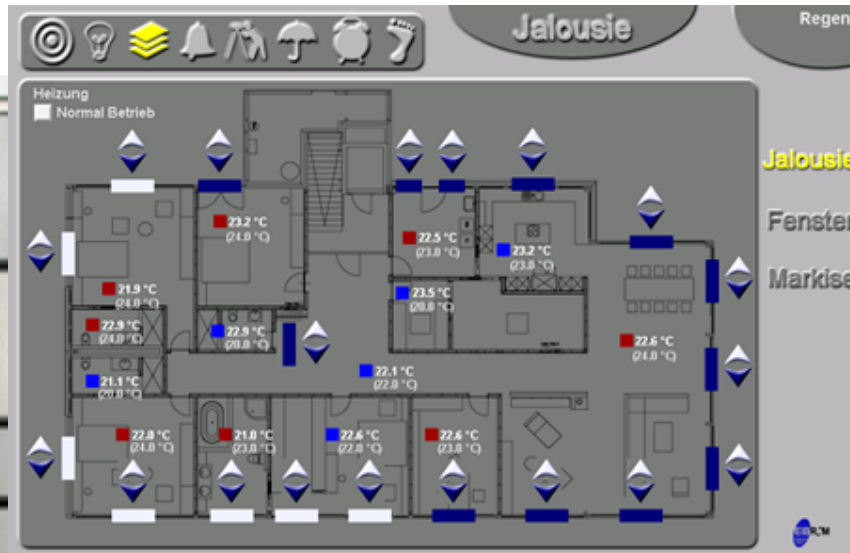
**Project management
and work efficiency
KNX Award 2004**

Extensive functionality thanks to KNX and visualisation

Projectnumber: W1/04/E



Jung local room controller



Presentation of the sun blinds and room temperature control by the visualisation programme.

▼ The following application domains are realised in this KNX installation: lighting, shading, heating including towel radiators and glass heating of the skylight, alarm installation, fault signals, technical

supervision, connection to cameras, external lift control, automatic irrigation, KNX visualisation as well as remote servicing and monitoring. In total 110 devices and 2 lines are installed.

Lighting and shutters can be locally operated via normal KNX Jung push buttons as well as via push buttons with display and temperature indication with integrated room controller of the same manufacturer. Moreover, in most of the rooms it is possible to easily call scenes – a total number of 48. The owner can locally set the desired settings and subsequently store them via the visualisation. For visualisation the Gira Home Server was used, which allows communication via internet and hence allows remote servicing.

Rational project realisation

To list extensive customer wishes is but one aspect of the KNX system integrator's task. The other lies in the realization of these wishes with the highest quality, in the most simple,

quickest and efficient way, in order to be able to offer an acceptable market price but still work profitable. The company EIBROM has therefore developed a software for the planning of KNX installations called EIBROM project. Principally the software allows the elaboration of lists of push buttons, actuators, scenes and weather station data for labelling purposes and with their respective group addresses. The lists of devices and group addresses are automatically generated and exported to the ETS. After this, only the device parameters as well as the object. ▲▲

Technical details

- The Siedle video intercom system uses 3 cameras. These video signals have been made available with a video network transducer for visualisation into the KNX network. This visualisation programme controls the movements and the zooming of the camera mounted at the entrance of the garage as well as the opening and closing of the 3 garage doors.
If one of the garage doors opens due to a remote control command, the KNX network automatically sends the elevator to the garage.

Involved companies

Electrical engineering and installation:

CAL Gebr. Calendo AG, CH-8001 Zurich

KNX System integration:

EIBROM, CH-8953 Dietikon