Lingg & Janke

KNX

Worldwide open standard for home and building control

We at Lingg & Janke use KNX standardisation. This has numerous advantages for our customers. KNX is the world's only open standard for house and building control. The International Electrotechnical Commission (IEC) has established the European EN 50090 KNX standard as an international standard according to ISO/IEC 14543-3. KNX technology is a uniform platform for all areas of house and building system control, based on an international industry standard.

KNX centrally controls nearly all components ranging from lighting and heating to burglar alarms and offers considerable advantages regarding comfort, security and economy, both for homes and industrial or commercial facilities.

KNX members currently offer around 7,000 products which are certified according to the KNX standard – and the number is increasing. Currently, the KNX Association has partnership agreements with more than 12,000 electrical contractors in 70 countries. KNX's German head office is located at the offices of the German Electrical and Electronic Manufacturers' Association (ZVEI) in Frankfurt.

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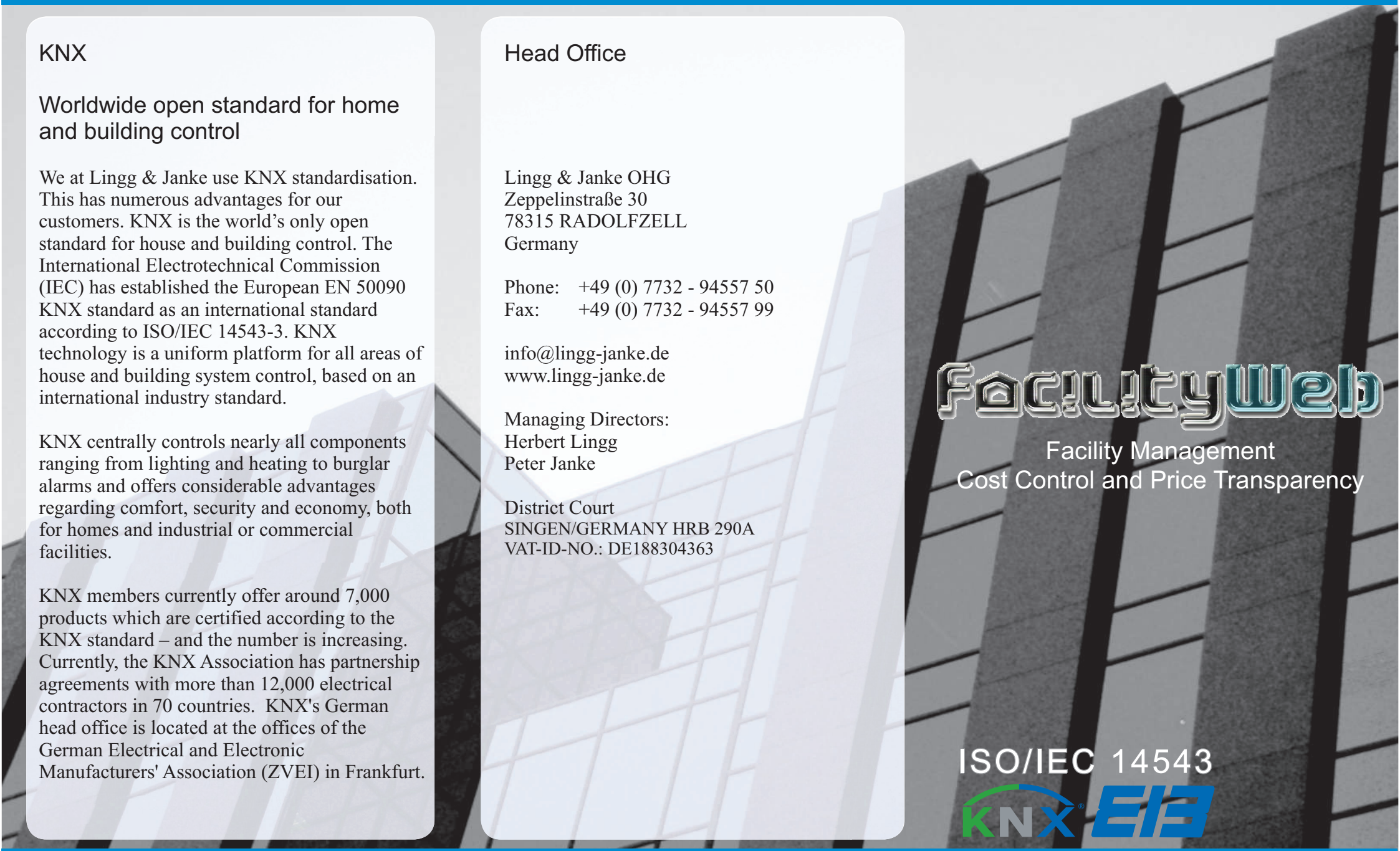


Lingg & Janke

FacilityWeb - Improving Control

Today, facility managers are facing both considerable cost and technical challenges. Checking costs should not be left just to the “controlling department”. This would only reflect the increase of energy costs.

In the competition for discerning customers, cost transparency and stable consumption play an essential role. Also, climate protection is becoming increasingly important when running or letting facilities.

FacilityWeb allows real-time recording, visualizing and checking energy consumption via intranet or internet. The values are displayed on a website via an inexpensive bus coupling unit which serves as a web server. Switches can be addressed via the user interface. Current operations can be amended at once.

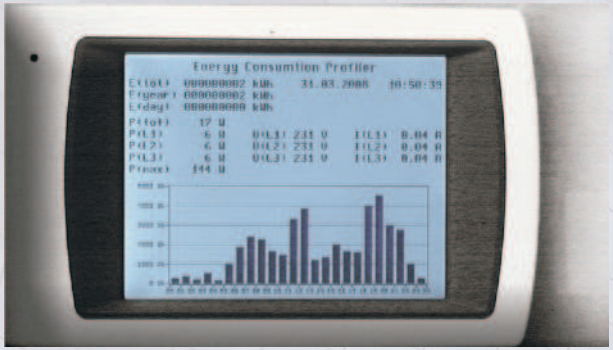
With this inexpensive technology, the facility manager's personal computer becomes a service and control centre, featuring lower energy consumption, simple wiring technology, low manufacturing prices and the word-wide ISO standard.

FacilityWeb - Saving Energy

The new Lingg & Janke EZ382-FW three-phase meter allows a detailed analysis of a facility's energy consumption.

The meter has a KNW/EIB interface which also supports the FacilityWeb technology.

Apart from directly providing all consumption data via the bus, the meter also allows the internal recording of all consumption data.



Every 15 minutes, the meter is read automatically and the readings are saved internally in a file for one year.

With FacilityWeb, these data can then be displayed at any time with an internet browser, both on site or by remote access.

FacilityWeb - Controlling Cost

The home owner or facility manager can now identify unnecessary energy consumption, and, if necessary, act accordingly: centrally or at any time from anywhere.

Experts agree that better transparency of energy consumption changes consumer behaviour and consequently reveal saving potentials.

Make your electric energy consumption visible!

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+-------------------------------+
| Rec. Date: Sat  01.03.2008 |
+-------------------------------+
| Kamstrup E-Meter 382/162   |
|                            |
| 1: Meter reading (kWh)     |
| 2: 1/4h Diff. (Wh)         |
| 3: Power (W)               |
|                            |
+-------------------------------+
08 00:00 000000986   200   536
08 00:15 000000986   100   458
08 00:30 000000986   100   554
08 00:45 000000987   200   605
08 01:00 000000987   100   540
08 01:15 000000987   200   606
08 01:30 000000987   100   592
08 01:45 000000987   200   438
08 02:00 000000987   100   440
08 02:15 000000987   100   443
08 02:30 000000987   100   619
08 02:45 000000986   100   436
08 03:00 000000988   100   440
08 03:15 000000988   200   439
08 03:30 000000986   100   569
08 03:45 000000988   100   583
08 04:00 000000988   200   559
08 04:15 000000986   100   599
08 04:30 000000988   100   595
08 04:45 000000989   200   601
08 05:00 000000989   100   437
08 05:15 000000989   200   852
08 05:30 000000989   500  4023
08 05:45 000000990   800  3999
08 06:00 000000991   800  3977
08 06:15 000000992   900   995
```