



The worldwide STANDARD for home and building control

Press release

KNX offers the world-wide Bus standard for Smart Metering

KNX Association cvba
De Kleetlaan 5 Bus 11
B-1831 Brussels-Diegem
Belgium

Tel.: +32 (0) 2 775 85 90
Fax: +32 (0) 2 675 50 28

info@knx.org
www.knx.org

Intelligently measuring and controlling energy consumption with KNX

- KNX building automation and Smart Metering complement each other in an optimal way
- Highest energy efficiency: Experience gained in 300.000 realized projects in Europe
- New brochure with detailed explanations and practical examples

The rising cost of energy, the need for commercial viability and the protection of the climate call for more transparency in energy consumption. The general practice of annual energy bills does not help in this matter. Changes are on the horizon only with respect to the supply of electricity. By using intelligent energy meters, electricity consumers could view their consumption as it happens and would be in a better position to control it. With KNX, more detailed choices regarding the responsible use of energy are possible already now, not only for electricity but also for heat, water and fossil fuels such as oil and gas. Numerous KNX components are already available on the market. A new brochure informs in details about the advantages of the technology. More info at www.knx.org.

Transparency

One key element for achieving more selective energy consumption patterns by consumers in buildings is to make it possible for them to monitor their ongoing energy consumption as directly as possible. For a long time now, we have had fuel consumption indicators in cars that show our current consumption: when we press the accelerator impulsively or drive with 'a lead foot', we can see immediately how our fuel consumption jumps up or stays high. It could be the same in buildings. But unfortunately, only very few are as yet equipped with such metering devices. This method, also called 'smart metering', provides intelligent metering and display of the energy consumed. I can only make more economic choices with my use of energy, such as turning off appliances or shifting uses to cheaper tariff time zones, when I know where and what I am currently using energy, for.

A task for KNX

We also have to question the usefulness of customers being informed about their heating costs when they do not get any information about the temperature in their rooms, the ventilation status of their windows

or the occupation status of the apartment/house. How useful is it for customers to be informed about the cost of electricity supply when they do not know the settings of their various appliances or whether rooms are occupied or not? Customers will be able to draw better conclusions about consumption patterns and potential savings or about optimising their usage patterns when they have information about the temperature in their rooms, the ventilation status of their windows and the occupation status. For this situation, KNX offers visualisation and automation solutions that can be combined with the metering of energy data. The result of this implementation is an active energy management, which can be used by customers to obtain information and, more importantly, will highlight any necessary changes of user patterns shown on the visual display.

The future has started

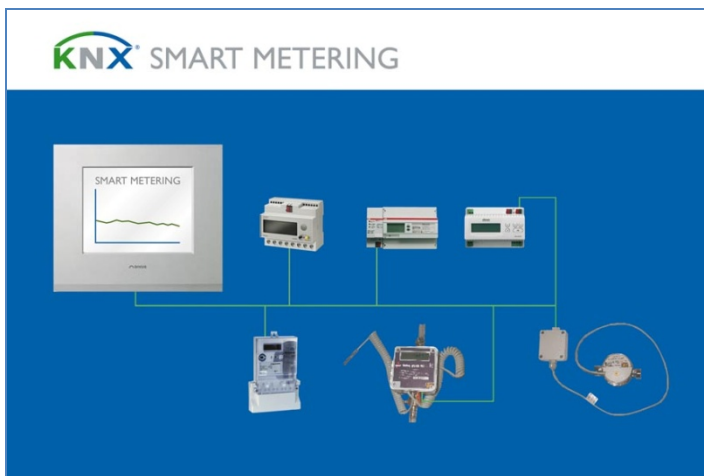
In the concept for introducing Smart Metering the ROI (return on investment) or cost neutrality is of great importance. The investment is offset by increases in efficiency through on-line meter reading and billing and, particularly, by cost reductions in energy consumption. Any remaining 'cost gaps' can be closed by additional services. Possible options are continuous user information, monitoring devices, e.g. smoke detectors, glass breakage sensors, room heating controls, monitoring facilities for the vital functions of occupants etc. An important prerequisite for these services is the compatibility of the metering devices and instruments with the KNX world.

The recommendation of the association

The association of more than 1000 companies that produce gas, heating and water meters, FIGAWA, recommends the use of KNX as the international standard for all transmission media in home and building automation, i.e. twisted pair, power line, radio frequency and IP. This shows that the different branches of the industry with different backgrounds, market objectives and target groups have worked together for the benefit of their customers. Even though KNX is already established as a standard, these synergies on the collection of consumption data will accelerate its success.

New brochure

Detailed information with descriptive explanations and examples can be found in the new 16-pages brochure „to Smart Metering with KNX “. In five chapters it describes general background in understandable language the Smart Metering and technical connections. Finally it presents sample applications and deals with different products. The brochure „Smart Metering with KNX “ can be found at the address <http://www.knx.org/knx/knx-applications/smart-metering/> to be downloaded or can be ordered at the email address info@knx.org.



Picture 1:
With KNX, more detailed choices regarding the responsible use of energy are possible already now, not only for electricity but also for heat, water and fossil fuels such as oil and gas.

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, smart metering as well as household appliances, audio/video 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 19 years of experience in the market including its predecessors, EIB, EHS and BatiBUS. Over 150 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

For more information / material please contact: heinz.lux@knx.org

Pictures can be downloaded at: www.knx.org/news-press/press-room