

# TELETASK

trendsetter in domotics



## Energy Management

*Without worries*

***In our continuously changing environment, everyone is looking for ecological solutions. The TELETASK integrated solutions contain full energy management features with the smallest ecological footprint without taking comfort compromises. Predicting how much the integration can save is not easy, but the maximum is guaranteed.***

### **Residential use**

The biggest energy consumers in a contemporary home are heating/cooling, boilers, lighting and any non-functional energy consumers. To control these efficiently the TELETASK system will communicate with the residents. Everything will be adapted to the residence, the family situation, the way of living.

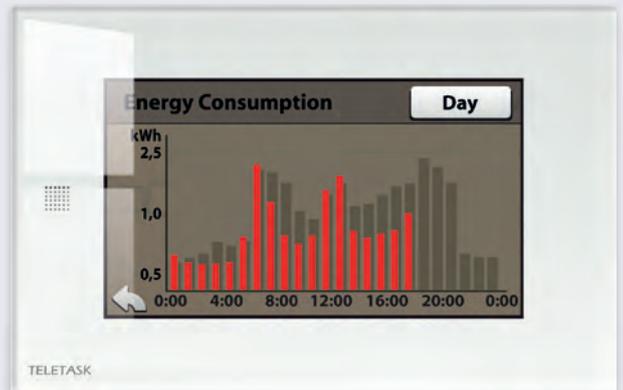
The standard built-in clock system is, in combination with the access control system and the different sensors, buttons and touch panels are important tools. No specific actions of the residents are needed. The system knows if the residents are there, went

out, are sleeping or not... Thanks to this information TELETASK cares about the energy at the highest possible level. It has no use that there is an activated light in the residence when all the residents are sleeping. It has no use to increase the heating at normal breakfast time when the residents are not at home. This way it is also useless to raise to a higher fan-speed (when there is measured a higher CO2 value) when you are snorkelling at the Maldives. Similarly with the HiFi, all lights, the coffee machine and all the other devices (plugged in wall sockets) when you are out for work. Energy management also becomes safety management and vice versa. When activating the alarm system, the TDS system knows directly what actions to take. The clock presets of the heating/cooling will immediately be "overruled" when you go to bed or get up earlier etc... and the energy consumption will go down.

Briefly, TELETASK will save everywhere and any time when possible. Even when you are sleeping.

Never think about energy consumption anymore. TELETASK takes care for you and your wallet.





### Energy parameters.

Energy parameters like consumption, generation, balance, today, last week, last month, etc... can be displayed anytime anywhere you like. On a touch panel, touch screens, your Smart Phone or PC... at home or from remote site.

Besides the decreased consumption there are other positive factors related to a TELETASK installation. You can expect a longer lifetime of your electrical appliances that will be powered for shorter periods. Moreover, the risk of fire through a short circuit or overload is much lower because there is no voltage on a switched off appliance. There is even no voltage on the wiring towards the appliance because all power switching is made in the electrical distribution board and not at the push button or the touch panel like with a traditional electrical installation. Even danger within a push button or touch panel belongs to the past because these are working on an ultra-low voltage of max. 12V (instead of 110-230V).

### Professional buildings

It is easier to calculate which savings are possible in a professional environment. In the TELETASK headquarters in Gent, there is a full integration of all functions and rooms. These are the showroom, the offices, the reception rooms, training rooms, laboratories, sanitary and technical rooms, warehouse, production and also external surfaces. Only when an employer has been recognised by the access control system of the TELETASK system, his workspace will be heated/cooled. The lighting in the showroom will only be active when at least one visitor

is in the area... This type of savings can be calculated easily and in this specific case several MWh (MegaWatt hours!) a year are saved (more than 1 to 2€/jr/m<sup>2</sup>). Plus the extended life time of the lighting and other connected appliances and reduction of maintenance costs. The system pays for itself.

In a building of 2000m<sup>2</sup> it can be 20.000 EUR or more over 20 years + the comfort and safety factors on top of it. If this is about 200MWh, this is the savings equivalent of CO<sup>2</sup> absorption of 1750 trees (according to the U.S. department of energy – see also [www.epa.gov](http://www.epa.gov))

### Own consumption

The own consumption of a typical TELETASK installation in a one family residence is about 20Watt (=175KWh/jr=€ 27/year at a cost of €0,15/KWh). With larger installations this will be higher, but it remains limited, partly also thanks to the so called 'zero power' relay interfaces TDS13500 from TELETASK. They use no energy as well in the ON as in the OFF position.

### Future developments

The built-in TELETASK intelligence increases every day and updates are available. Every TELETASK system can always be upgraded to the newest software version with the newest features.

The TELETASK research activities include the investigation of the integration of the Smart Grid and related items like the introduction of electrical cars. Today, every TDS equipped house is ready for this future thanks to the TELETASK DoIP concept.