

Accurate measurement of energy consumption

We live in a time where a great deal of attention is paid to the environment and where there are more and more initiatives aimed at sustainability. How can we ensure that less energy is wasted and that processes in companies run more efficiently? To find out how you can save energy, it is important that you get a sharp view on the energy consumption in your processes and machinery. Which pieces of equipment consumes a lot of power? By making use of energy monitoring you will get a clear and reliable picture of energy consumption within your company.

Saving energy starts with accurately measuring energy consumption. How much energy do certain machines and processes consume? Do you know what equipment in your company is the least efficient? Energy monitoring provides you with the insight you need to achieve energy savings.



Applications energy monitoring

Energy monitoring in homes

Energy saving in refrigeration units

Optimising energy consumption in greenhouses

Monitoring heating installations

Saving energy consumption in industry

The WiSensys® platform can be used to measure energy consumption in homes, offices, industrial plants, horticultural greenhouses, etc. WiSensys® has several sensors which can be used for energy monitoring.

The WiSensys® platform uses the license free ISM bandwidth. For Europe we use 868Mhz (code WSE) and for the rest of the world we use 915Mhz (WSW)

Sensor WSE-DLRs

WSE-DLRs measures energy usage. Sensing is done on any device plugged into the power outlet of the sensor. The device to be measured must have a regular EU Power connector and run at 230V using a maximum current of 10A.

Range: 0 - 10 A

Accuracy: +/- 1% of range (class 1)

Remark: switch for on/off switching of connected devices



Sensor WSE-DLXp

WSE-DLXp detects pulses and counts the number of pulses. It is used for counting pulses for a kWh meter. These energy meters are used not only in 230V systems but also in high voltage, high current, 3-phase electrical systems.

Maximum pulse rate: 100 pulses per second

Detection closed: $V_{in} < 1 V$

Detection open: $V_{in} > 2 V$



Sensor WSE-DLXac

WSE-DLXac measures process mV signals. Sensing is done using available sensor/equipment with 0 - 1000 mV RMS output. A practical example is the current clamp for measuring electrical current, estimated energy consumption, signalling on/off/full load/part load etc.

Range: 0 - 1000 mV RMS

Accuracy: +/- 0,25% of range

