**Jardana KNX irrigation control and Fabro KNX touch panel: a perfect duo for outdoors**

*Main picture: Elsner\_Jardana-Unit\_Presse.jpg:   
Jardana waters different zones in the garden individually via app or KNX.*

The automatic KNX irrigation control system Jardana ensures healthy plant splendour in the garden – with and without KNX. In combination with the robust Fabro KNX touch panel, Elsner Elektronik GmbH offers an efficient solution for controlling and monitoring irrigation in the garden.

## Irrigate smartly and save resources

Jardana is the first automatic irrigation controller that can also be integrated into the KNX building bus system. The controller consists of a combination of hardware (valve unit, sensors) and associated app. Jardana can also be used independently of KNX as a stand-alone solution.

Commissioning the irrigation system works according to the "plug & play" principle. Water and mains voltage are connected. Settings are made via the corresponding app. If required, Jardana generates its own WLAN, which enables it to be used in allotment gardens and on extensive properties.

*Elsner\_Jardana-App\_Presse.jpg  
App and KNX: both are possible with Jardana*

The system is suitable for all types of irrigation, from drip irrigation to lawn sprinklers. Jardana has four valves that can be used to water four different zones. Four watering timers with different durations can be set for each zone. Additional soil sensors allow the irrigation to be optimised to the soil conditions and the needs of the plants. The sensors ensure that watering only takes place at the set watering times if the soil is too dry. It is advisable to bury a soil moisture sensor in the root area of the plants in each irrigation zone. This not only saves water, but also protects the plants from excessive watering.

*Elsner\_Jardana-TMi\_h/q\_Presse.jpg:   
TMi soil moisture sensors help to save water.*

## Garden and terrace conveniently in view

If irrigation needs to be stopped because the garden is being used or if an extra portion of water needs to be provided, this can all be controlled via the app using a smartphone or tablet. If Jardana is integrated into the home's KNX system, further options are available. Irrigation can then be monitored and operated via a home control panel or garden touch display.

The Fabro KNX touch panel is ideal for this because it is designed for outdoor use. The large display and control areas can be customised to suit individual requirements. For example, to quickly start and stop watering or to monitor which zone is currently being watered. Other functions can also be integrated here, such as lighting, awning control or the display of current wind data, cistern fill level etc. Fabro thus becomes a control unit for the garden and patio. Thanks to its robust aluminium housing, the touch panel is particularly suitable for such harsh environments. In addition to patios, outdoor kitchens and greenhouses, it is also frequently used in workshops, for example.

*Elsner\_FabroKNX\_en\_Presse.jpg:  
The Fabro KNX touch panel withstands wind and weather thanks to its IP66 protection rating.*

## KNX connects garden and house

The KNX system often provides additional data that is interesting for outdoor areas. In addition to the soil moisture readings, other sensor data can also be used to control the irrigation for resource-saving gardening:

For example, area irrigation is adapted to the outside temperature and is suspended once on particularly hot days to avoid evaporation and save water. Artificial irrigation is also switched off when a weather station reports wind, as well as in the event of natural rain. The detection of rain showers or strong winds via a weather station installed on site is also important for awnings, which are installed on many terraces. This means that the sensitive fabric is also protected via KNX in the event of local weather events. The data from an online weather service is too inaccurate for this. In the event of such a rain or wind alarm, the user can immediately see on the Fabro KNX display that the shade has been retracted for protection.

*Elsner\_Windancer-Wetterstation\_Presse.jpg:  
A weather station such as Windancer KNX-GPS provides up-to-date outdoor data for all areas of the smart building, from solar shading to irrigation.*

For many sociable garden lovers, lighting is also important to extend the summer evening even further. Lights can be switched on and off via KNX at dusk. The brightness value for this is provided by the weather station, and the time or people on the patio can be used as additional criteria.

If cistern water is used, a tank sensor can report the remaining content and KNX automatically switches between rainwater or fresh water. But provision can also be made for relaxed use of the garden: If a presence detector recognises that the patio is being used for a longer period of time, the lawn sprinkler is blocked so that the garden party won’t be crashed by sprinklers.

*Elsner\_KNX-SO250-Tanksonde\_graphic\_Presse.jpg:  
The ultrasonic measuring head of the KNX SO250 monitors the level in the cistern.*

All these functions can be set up as automatic functions via logics in the KNX system - and of course also displayed as information on the Fabro KNX panel. Depending on the existing sensors and equipment, the personal garden dream can be realised. Various devices such as irrigation control, weather station, fill level sensor and display work together seamlessly in the KNX system to ensure resource-efficient irrigation, provide safe comfort in the outdoor area and maintain an overview at all times.

The easy-to-install Jardana system makes it easy to get started with smart gardening and is integrated into a future-proof system via KNX. In this way, the irrigation control system contributes to successful, sustainable gardening for years to come.

Image source: Elsner Elektronik

## About Elsner Elektronik:

Whether KNX building technology, indoor climate control, wireless systems or weather sensors – Elsner Elektronik specialises in the manufacture of high-quality components for the automation of buildings and smart homes. The intelligent solutions from Elsner Elektronik make buildings more sustainable, more comfortable and safer. They are suitable for the property sector with administrative buildings and public buildings as well as for the private residential and retrofit market.

The devices are characterised by reliability and innovative, well thought-out functionality. Elsner Elektronik has specialised in this since 1990. All Elsner products are developed and produced at the family company's headquarters in Ostelsheim. Simple KNX integration is just as important as user-friendliness and an attractive design.