



## Press release

### Intelligence and maximum flexibility in room automation

#### Warema BAline modular control system

**Warema BAline is an extremely intelligent control system whose modular design enables flexible automation, fulfilling all requirements. State-of-the-art technologies like wind assessment reports, annual shading and slat tracking can be integrated easily. The freely programmable bus coupler also allows it to be integrated into the KNX and LON bus systems. KNX group objects and LON network variables (SNVT) can be flexibly selected, and the system integrator can administer and allocate them freely.**

Modular control systems enable the pooling of different parts within a room automation unit, based on a single unit family. Warema BAline offers solutions for individual rooms and zones, combining different devices or subsystems, such as DALI and SMI, into one customised module. This creates an easily adjustable room automation solution for individual utilisation concepts and functional requirements. BAline systems are calculated and designed based on the Association of German Engineers' standard VDI 3813-2. This determines how the functions in room automation solutions are to be described in the planning phase. Free programming and modularity make this a system of the future. It reduces operating and production costs and increases the value of buildings. Energy efficiency, thermal and visual comfort are harmonised, starting with the facade.

Complex functional and automation sequences can be implemented using the KNXMCM or LONMCM bus coupler and the BAline extension modules (MIOs). A number of consumers can be combined in one individual application. Many different push buttons, such as sunblind push buttons, analogue sensors and digital transmitters, can be connected to the BAline MIOs' universal inputs. This enables easy operation of sun shading control systems (230 V AC, 24 V DC, SMI and SMI LoVo), light control (DALI, 0-10 V, switching) and valve control (10 V, Triac).

#### Wind assessment reports

One advantage of BAline is that the system is suitable for wind assessment reports. Thanks to precise calculations, the control system requires just a single measuring point, which



provides the system with information on brightness, precipitation, outside temperature, wind speed and wind direction. The measuring values are relayed to the freely programmable BAline MCM logic modules, which are the system's brain and convert the measuring values from the wind assessment reports into move commands for the sun shading system.

### **Annual shading**

Warema BAline can contribute considerably to the sustainability of buildings, which is becoming more and more important. Annual shading and slat tracking are indispensable in achieving energy efficiency class A or B pursuant to EN 15232 and VDI 3813 page 2. Annual shading can be easily implemented with the help of BAline. Depending on the season and the position of the sun, Warema calculates and analyses how the shadow will evolve, taking the surrounding buildings into account. Every room can be set up as a shading zone – not just based on the individual reference points, but depending on the individual measuring values of the central weather unit and the calculated incidence of light. The sun shading system will then act as if a sensor were fixed to each sun shading product that reacts as soon as sunlight hits the window; in fact, one sensor on the roof is enough.

### **Slat tracking based on the sun's position**

Depending on the current position of the sun, the angle-accurate slat tracking on the sun shading system ensures the best possible daylight utilisation as well as optimal glare control and heat protection. This allows as much diffused daylight as possible into the room while keeping direct sunlight out. Slat tracking positions the external venetian blind in an optimal angle to the current position of the sun. The sun shading elements can also be controlled manually as required using push-buttons connected to the actuators for room operation.

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