



## MIDAM WINx11

## Wireless wall switch with temperature sensing



**Wireless, battery operated wall fold button/switch featuring up to six digital inputs (buttons). It can use its built-in temperature sensor for ambient temperature readouts. Native modbus map grants seamless integration into any SCADA systems. The communication is based on encrypted Midam KFP protocol, which allows to update the device firmware on a wireless basis.**

### Application

- 2 digital inputs wireless module WIN211 (on request)
- 4 digital inputs wireless module WIN411
- 6 digital inputs wireless module WIN611
- Control of up to six or three (twin mode) light circuits (wireless DALI)
- Up to three shutters/blinds control
- Reference temperature sensing
- Wireless integration into DDC/SCADA systems

### Function

The WINx11 module monitors up to 6 digital inputs/buttons, supporting long press and flip/flop emulating (one button function). Wireless communication is based on an unlicensed 868MHz band. Embedded AES 128-bit, provides the most secure encryption standard for wireless connections. The signal is sent to a receiver, such as a wireless DALI converter (WDALI01, WDALI51), wireless digital outputs (WOUT251, WOUT261), or a wireless gateway (WCOM01 or WCOM51). All digital inputs (buttons) are configurable. The switch can use its built-in temperature sensor for reference ambient temperature measurements. The device has factory-set values to ensure the correct default function and allows direct reading and writing of values to the Modbus map, which is available in a separate document. All settings are also stored in the Modbus map directly in

the device. Before using the device for the first time, it is necessary to pair it and it is recommended to perform individual configuration, especially to change the encryption password.

### SCADA system integration

The module can be integrated through the fan coil controller WFC01001, via the Modbus RTU (RS485). For direct integration of the device, use of wireless gateways, such as WCOM01, or WCOM51 is recommended.

### Pairing

Two devices are required for mutual communication. Both must be powered and located in close proximity to each other. Usually, wireless gateway or configuration dongle is used to set up remote wireless devices. Use look-up function in software tool to display a list of all available devices in range and assign or adjust parameters based on wireless ID code for each single device. There is a comprehensive help section integrated in the software tool to provide support during the wireless device set up procedure. To perform manual pairing, set the PRG switch or the DIP switch on the remote device. From this time on, any digital input (button) on WINx11 must be activated within 10 seconds. This confirms the pairing of both devices. Switch the PRG DIP switch on remote device again.

### Midam KFP Password change

Prior to the first use, the encryption password (default "MIKROKLIMA1234AB") must be changed using the WUSB01 configuration dongle and the relevant software tool.





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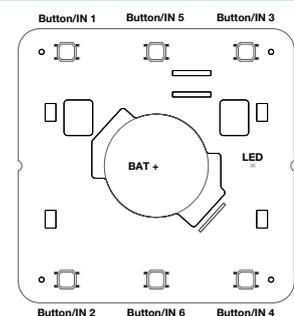
### Technical data

<b>Power supply</b>	Main lithium battery 3V, type CR2450, included and activated upon red pull-tab removal
<b>Consumption</b>	idle <2 uA, typical avg. 3 uA, max. 25 mA
<b>Battery life</b>	> 5 years
<b>Communication</b>	868,950 MHz, 100 kbps, WMBUS T1, KFP (default factory setting) 868,300 MHz, 32 kbps, WMBUS S1, KFP 868,100 MHz, 100 kbps, KFP 869,525 MHz, 100 kbps, WMBUS C, KFP
<b>Protocol</b>	KFP (dual stack)
<b>Encryption</b>	AES 128 PCBC, EN 13757-4
<b>RF power</b>	+13 to -20 dBm, step 5 dB
<b>Antenna</b>	Integrated (omnidirectional)
<b>Communication range</b>	100 m in free space, 20 m in buildings
<b>Mechanical and dimensions</b>	86x86x13mm (l x w x h) ABS + PC plastic enclosure, IP20, white 2 x buttons WIN211 (limited availability, upon request) 4 x buttons WIN411 6 x buttons WIN611
<b>Temperature measurement range</b>	-5 to +45 °C, ± 1,0 °C max. 2 °C
<b>Ambient conditions</b>	-5 to +45 °C, 5 % to 95 % relative humidity (non condensated), EN60721-3-3 class 3K5
<b>RoHS notice</b>	The device contains a non-rechargeable battery. After the device is not operable, please return it to the manufacturer or dispose of it in compliance with local regulations.



### Terminals and connection

<b>PRG</b>	Upon red isolation stripe removal/activating battery, or... Via longpress (+5s) of Button/IN 3...IN2 - default frequency and password
<b>LED</b>	RED/GREEN LED - sending/receiving data, RED still ON - error indication





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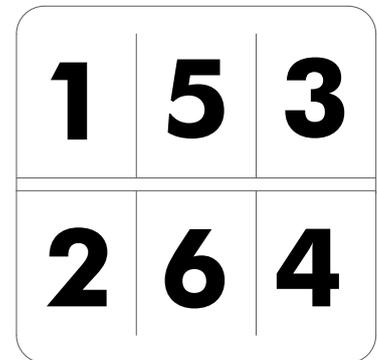
### Battery change

The CR2450 type battery should keep your device running smoothly for more than 60 months but the time will come when you need to replace it. The KFP Tool app can also indicate and report the remaining battery power so that you are aware when it's proper time for change. Remove the upper part of the module using the appropriate flat tool. Insert the tool between upper and lower part of the unit at the position of the both ends of the center trim. Then slightly lift the upper part using the same tool on the top and at the bottom of the unit. Remove the battery from the holder and replace the battery with a fresh one. Observe the battery type and polarity. Close the unit by pressing gently both parts together again (click).

### Switching between programming and unidirectional mode, 6 buttons variant handling

#### Switching to PRG mode:

Press and hold the 3rd button. At 5th second, the red LED will light up for one second.  
 Press the 2nd button briefly while the LED is lit.  
 The change is indicated by the red LED flashing twice.  
 PRG mode is indicated by a steady flashing of the red LED.



#### Switching to unidirectional mode:

Press and hold the 3rd button. At 5th second, the red LED will light up for one second.  
 Press the 4th button briefly while the LED is lit.  
 Activation of the unidirectional mode is indicated by the green LED flashing three times.  
 Activation of the bidirectional mode is indicated by the red LED flashing three times.  
 To configure the controller, the controller must be in bidirectional mode.  
 If one controller is to control multiple devices, it must be in unidirectional mode.

### 6 buttons (IN6) variant handling/configuration

The basic device implementation supports a wall-mounted controller with four inputs (buttons). For the six-button hardware variant, it is necessary to create two logical assignments of the same physical device in the KFPTool SW. The first assignment handles inputs 1-4, while the second assignment handles inputs 5-6.

### Changes in versions

03/2020	New datasheet version (v20/03).
05/2020	Temperature sensing option and specification added (v20/05).
02/2021	Changes in description (v21/02).
07/2024	Switching between programming and unidirectional mode procedure added. (v24/07).
07/2025	The wording of the section "Midam KFP Password change" has been modified (v25/07).
01/2026	IN6 variant handling/configuration in KFPTool (v26/01).

