



MIDAM WWIN01

Wireless window/door contact



Wireless, battery powered window/door contact, which will quickly and reliably detect any open windows or door to ensure greater security and energy efficiency. Native modbus map grants seamless integration into the SCADA system. The communication is based on the AES128 encrypted Midam KFP protocol, which allows to update the device firmware on a wireless basis.

Aplikace

- Detecting of any open window where fitted
- Detecting of any open door where fitted
- Notification of mutual movement
- Alarm triggering

Function

The WWIN01 is a magnetic based, battery operated contact which monitors and reports any mutual movement of its two parts. The device communicates with wireless gateway, wireless fan-coil controller or directly with WOUT2xx, WDALxx family devices through the 868 MHz unlicensed band. It is also possible to create a direct wireless connection with other Midam KFP mains powered devices. Embedded AES 128-bit, provides the most secure encryption standard for wireless connections. 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 device can be integrated into DDC or SCADA systems directly via the WCOM51, WCOM01 wireless gateways or fancoil controller WFC01001 respectively.

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.

Unidirectional vs. Bidirectional mode

The device sends information upon status change, or once a minute in default configuration. Unidirectional mode is used mainly when more than one device is supposed to get information from the window contact (e.g. WCOM51 and WFC01001). In this mode, the window contact sends each packet 3 times and does not expect any acknowledgment. Communication is less reliable compared to bidirectional mode and may shorten battery life. Even the configuration program cannot connect to the window contact if switched to unidirectional mode. In bidirectional communication mode, the WWIN01 can only be connected to one receiving device. Both modes are operated using the USR clamp.

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.





MIDAM WWIN01

Wireless window/door contact



Technical data

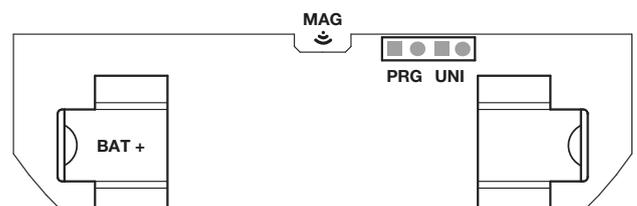
Power supply	1x LR03 (AAA type) longlife primary alkaline battery 1.5 V, not included
Consumption	idle <5 uA, avg. typical 10 uA, max. 25 mA
Battery life	> 3 years
Communication	868,950 MHz, 100 kbps, KFP (standardní tovární nastavení) 868,300 MHz, 32 kbps, KFP 868,100 MHz, 100 kbps, KFP 869,525 MHz, 100 kbps, KFP 868,300 MHz, 38 kbps, KFP
Protocol	KFP
Encryption	AES 128 PCBC, EN 13757-4
RF power	+10 to - 20 dBm, step 5 dB
Antenna	Integrated
Communication range	45 m in free space, 15 m in buildings
Mechanical and dimensions	70.8 x 20.4 x 18.6 mm (basic unit - for detailed information please refer to scheme further in the document) Enclosure ABS, IP21 (EN 60529) Ø 8mm removable neodymium rounded magnet with central bore for M3 countersunk screw
Digital input	Magnetic sensor based on the Hall effect (digital switch Hall effect sensor), reaction speed 200 ms, sensitivity 5 mT.
Ambient conditions	-5 to +45 °C, 5 % to 95 % rH (EN 60721-3-3 class 3K5)
RoHS notice	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.



WIRELESS SOLUTIONS

Terminals and connection

MAG	Magnetic sensor
PRG	Without clamp - user defined frequency and password With clamp - default frequency and password
UNI	Without clamp - bidirectional mode With clamp - unidirectional mode





MIDAM WWIN01

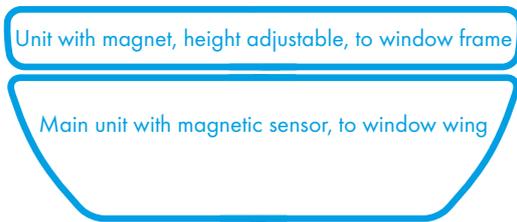
Wireless window/door contact

Battery change and sensor position

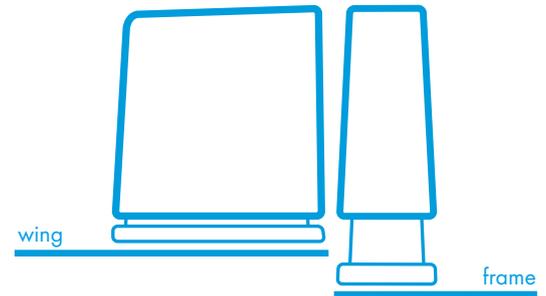
Battery compartment is located in the main unit. Remove the back cover of it and remove the old battery from the clamp. Replace it with a new one. Observe the type and polarity of the battery. Close the device by pressing the two parts together again (click) then.

Window frame unit is delivered in two base options in order to cover multiple window wing width alternatives and assure optimum magnet position to the sensor located in the main unit which is mounted on the window wing. Best sensing is reached as the magnetic unit is aligned properly with the main unit in both vertical as well as horizontal axes.

Front view



Side view



Working with a removable magnet

The previously utilized rounded magnet has been superseded by an updated variant featuring a central countersunk bore designed for a standard M3 flat-head screw, enabling reliable fastening, straightforward disassembly, and optional standalone application. Due to the inherently brittle, ceramic-like structure of the neodymium alloy, it is essential to apply fastening torque with utmost restraint. As a conservative guideline, the tightening torque should be limited to approximately 0.6 Nm, whereas 2 Nm should be considered an absolute maximum under strictly controlled, low-impact conditions to prevent structural damage.



Changes in versions

06/2021	New datasheet version (v21/06).
04/2022	PRG, UNI jumpers updated (v22/04).
07/2025	The wording of the section "Midam KFP Password change" has been modified (v25/07).
08/2025	Removable magnet option added (v25/08).

Subject to technical changes and General Terms and Conditions.

