



# MIDAM WUSB01

## Wireless USB HID configuration dongle



Wireless USB configurator dongle designed for set up and direct communication with Midam wireless devices. It uses the AES128 encrypted Midam **KFP** protocol, which also allows wireless firmware update on connected devices. The configurator features the USB Human Interface Design (HID) functionality for easy operation on PC platform.

### Application

- Configuration, monitoring and maintenance of wireless devices communicating through Midam **KFP**.
- Monitoring and maintenance of wireless devices communicationg through wMbus protocol.
- Wireless firmware update for connected Midam **KFP** devices
- Direct data acquisition from Midam **KFP** devices

### Function

The wireless USB configurator WUSB01 acts as a communication interface between PC application and other Midam **KFP** wireless devices. Wireless communication is based on an unlicensed

868 MHz band. Embedded AES 128-bit, provides the most secure encryption standard for wireless connections. The USB side uses the HID standard, which does not require any physical installation of the drivers on a Windows based PC. It allows to update the device firmware in the wireless network, and the firmware of its own USB configurator WUSB01 at the same time. Since all wireless modules feature a native modbus map with the direct read and write functionality, this configurator is the perfect device for direct intervention or while maintaining/configuring the already installed wireless solution project. It is recommended to perform individual configuration, especially to change the encryption password.

### 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.



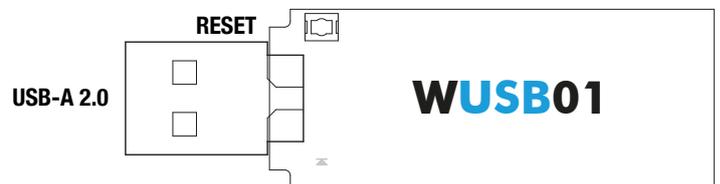
# MIDAM WUSB01

Wireless USB HID configuration dongle



## Technical data

<b>Power supply</b>	USB 5 V
<b>Consumption</b>	100 mA max.
<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 868,300 MHz, 38 kbps, KFP
<b>Protocol</b>	wMBUS (EN 13757-4), 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
<b>Communication range</b>	80 m in free space, 20 m in buildings
<b>Mechanical and dimensions</b>	71 x 23 x 9 mm Polycarbonate enclosure, UL94-V0, IP20
<b>Ambient conditions</b>	-5 to +45 °C, 5 % to 95 % rH (EN 60721-3-3 class 3K5)



## Changes in versions

02/2020	New datasheet version ( v20/02 ).
11/2020	RF power values and layout updates (v20/11).
07/2025	The wording of the section "Midam KFP Password change" has been modified (v25/07).

Subject to technical changes and General Terms and Conditions.

