



## DESCRIPTION AND APPLICATION

WUSB01 is a wireless USB configurator dongle designed for set up and direct communication with MIDAM wireless devices. It uses Midam KFP encrypted protocol, which allows wireless firmware update on connected devices. The configurator features the USB Human Interface Design (HID) functionality for easy operation on PC platform without the need to install device drivers.

### Application

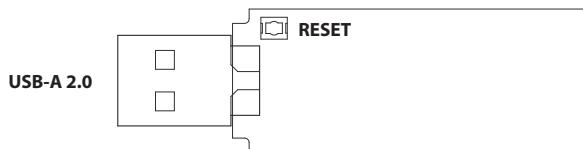
- configuration, monitoring and maintenance of wireless devices communicating through Midam KFP
- monitoring and maintenance of wireless devices communicating through WMBus protocol
- wireless firmware update for connected Midam KFP devices
- direct data acquisition from Midam KFP devices

## FUNCTION

The wireless USB configurator acts as a communication interface between PC application and other wireless devices. Wireless communication takes place in the unlicensed 868 MHz band. Built-in 128-bit AES encryption 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 Midam 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 enter the encryption password.



## WIRING DIAGRAM



## SPECIFICATIONS

USB configurator	WUSB01
Power supply	USB 5 V
Consumption	100 mA max.
Communication	868.950 MHz, 100 kbps, WMBUS T1, KFP 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
Protocol	WMBUS (EN 13757-4), KFP (dual stack)
Encryption	AES 128 PCBC, EN 13757-4
RF power	+13 to -20 dBm, step 5 dB
Antenna	integrated
Communication range	80 m in free space, 20 m in buildings
Mechanical and dimensions	71×23×9 mm, polycarbonate enclosure, UL94-V0, IP 20 in accordance with EN 60529, as amended
Ambient conditions	-5 to 45 °C, 5 % to 95 % rH (EN 60721-3-3 class 3K5)