

VMBKP datasheet

Keypad with RFID for Velbus

Vandal resistant keypad with RFID for access control using the Velbus domotics system



Protocol manuals for developers: available for download at <https://github.com/velbus>

VELBUS • VMBKP

Legen Heirweg 33 • 9890 Gavere • Belgium
velbus.eu

Features

- designed to be used with the Velbus domotics system
- vandal-resistant die-cast zinc alloy protection bracket for surface mounting
- faceplate material: stainless steel
- back-lit keypad (blue light) with metal keys and selectable light duration (on-10s-off)
- standby LED and 2 user channel status LEDs on the front
- built-in tamper detection
- weatherproof (IP65)
- 2 separate user channels with max. 1,000 users for controlling channel 1 and max. 100 users for channel 2
- 50 visitor codes for temporary workers and visitors, for one time use or which expire after a programmable time of 1-99 hours
- 4-8 digit user codes, RFID cards or fobs, or combination of the two for different security levels
- advanced possibilities using Velbus configuration:
 - channel inhibition during certain periods and/or activated by Velbus buttons, sensors,...
 - configure a Velbus button as egress button, for opening the door without using codes or cards (e.g. for a button inside the building)
- additional functionality using inputs/outputs that are not connected to the Velbus system (if needed these can be connected using Velbus input and output modules):
 - input for sensing the door position: e.g. by directly connecting a normally closed magnetic door switch (used for warning beeps when the door remains open, advanced security access, ...)
 - egress input: for opening the door without using codes or cards, eg. using a button inside the building directly wired to the keypad
 - duress output: when entering the duress code, the user channels will be operated just like a normal code, but additionally the duress output (open collector) will be closed, eg. for triggering a silent alarm when someone is forced to operate the keypad
 - alarm output (open collector): closes when the door is forced open or opened after the egress delay (configurable 1-99 seconds)
- compatible with: 125 kHz Manchester 64-bit EM4100 & EM4200 EM cards and keyfobs
- CAN terminator switch with state detection
- 8 Velbus channels: 2 user channels, tamper alarm, 5 virtual buttons
- uses one Velbus address (configurable in VelbusLink)
- extensive day, week and year programs plus a built-in astronomical clock (sunrise and sunset timing) are included to operate, lock and unlock the channels automatically (configurable in VelbusLink)

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Specifications

- mounting screws, wall plugs and 2 RFID cards included
- delays for code entry and card reading: 10 seconds max. delay for next digit entry; 30 seconds max. delay for code entry after card reading

dimensions (H x W x D)	144 x 78 x 32 mm
supply voltage	15 ±3 VDC
current consumption	130 mA max.
weight	400 g
Velbus bus connector cross section (solid wire)	0.5 - 1.5 mm ²
operating conditions	-20 to +70°C
protection rating	IP65
address range	1-250
number of channels	8
number of program steps	70 max.
storage conditions	-20 to +70°C, 5-95% relative humidity non-condensing
housing	die-cast zinc alloy protection bracket
faceplate material	stainless steel
max. transmitted power	< -57 dBm

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