Qbox reader unit

This reader unit can read and detect RFID identificators in the radio field of the reader unit after being plugged into the USB port. It is used for connection into the WIS access system, where it can quickly read the unique ID number of a card. Its purpose is to read the ID number of the detected RFID card into the application software.

Versions of the Qbox reader unit
WIST0208

QBox_KL	Keyboard emulation
	USB – virtual serial port

Technical parameters

Dimensions	100mm x 53 mm x 30 mm
Weight	100g
Voltage/Power supply	+5V DC from USB port
Max. consumption	90 mA
RFID technology	EM 4002, ISO 14443A, ISO 14443B, ISO 15693, LEGIC, MIFARE, MOTOROLA – needs to be specified when ordering
Sent data format – virtual port	STX, ID card number, EXT 9600,8,N,1
Sent data format – keyboard emulation	8 ASCII characters, CR, LF
Reading coverage	max. 10 cm – according to RFID technology used
Communication interface	USB 2.0 – virtual serial port
Length of lead-in cable	Standard 0,9 m; max 1,8 m
Signalization	1x Buzzer
Range of working temperatures	0, +50ºC

WEGA

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Running test and controls

After connecting the unit into the USB cord, it will activate its buzzer for approximately 1 second. Afterwards the reader unit is brought into idle condition. With the Virtual serial port version a driver needs to be installed into the computer. The software driver is a part of the reader unit package or it is downloadable at http://www.ftdchip.com.

Montage

The reader unit uses passive RFID technology to work, which is sensitive to outside RF interference. The reader unit mustn't be installed close to possible sources of electromagnetic fields. The interference of the outside field is the bigger the more its frequency is similar to the working frequency of the reader head or the bigger its intensity is.

The proper functioning of the reader unit can be influenced by metal sufaces nearby, which absorb electromagnetic fields or can de-tune the antennas of the reader unit. A practical test of its placement is reccommended.

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