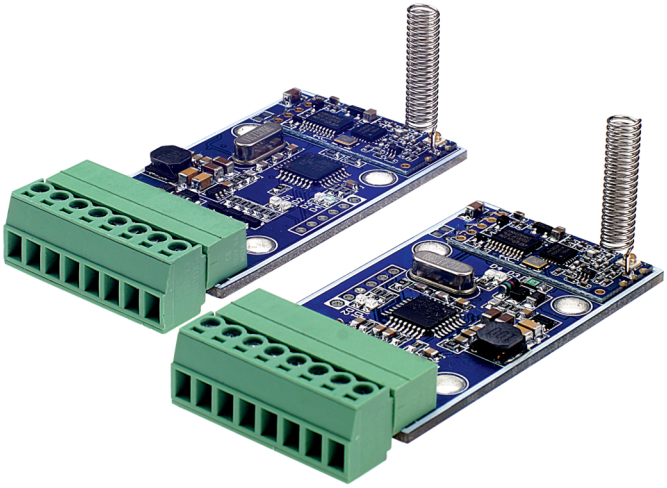
CHOMTECH

AVANGUARD®

WIRELESS WIEGAND TRANSIMITTER

The transmitter with standard WIEGAND readers widely used in access control systems. Set the transmitter (WIEGAND-433MHz) - receiver (433MHz-WIEGAND) multiplexer / demultiplexer four digital signal (buzzer, LED1, LED2, tamper), increasing transmission distance of Wiegand reader controllers (access control) up to 1000m using radio transmission. It can work as an extension cable and repeater: translator or converter WIEGAND.



The device allow to modernize and extend the functionality of the solutions – can be an alternative to costly replacement of the entire system. Device is used especially in systems: security, access control, time registration, logistics, warehouse, etc.

The use of universal interfaces allows to adjust or migrate different kinds of systems, readers, card.

In the case of special needs converter can be programmed by individually tailored and custom algorithms.

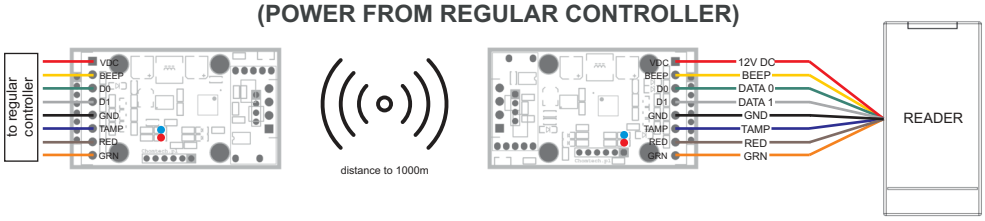
To be built in (OEM).

APPLICATION

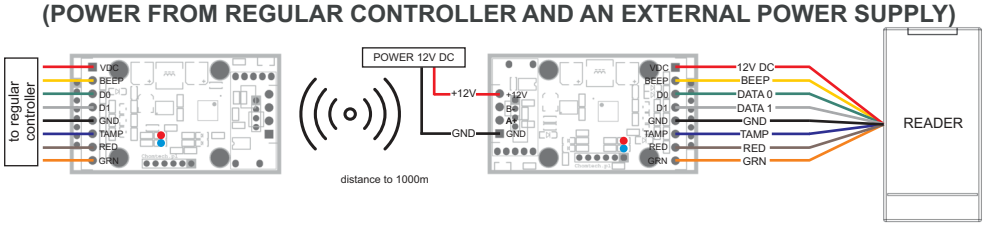
INCREASE THE DISTANCE TRANSMISSION	In the case of the need to increase the distance between the reader with WIEGAND interface and the controler, can be successfully used as an extension. The device transmits Wiegand to the controler signal LED1, LED2 and the buzzer from the controler to the reader at a distance of up to 40m.
REDUCTION OF WIRING	In the absence of the possibility of replacement of damaged cables reader, the device can be used to reduce the amount needed wiring. For proper operation of a pair of devices (transmitter-receiver) with power reader could be four veins. In the case of the classical transmission WIEGAND need to 8 (with additional digital signals - buzzer, LED1, LED2 and reader tamper).
SIGNAL REGENERATION	In the case of interference in the transmission of standard reader with WIEGAND interface device can be used as a repeater to improving the quality and strength of the signal supplied to the controller.
FORMATS TRANSLATION (CONVERSION)	If you need to convert the format Wiegand sent by a reader (eg. From 50 bit to 37 bit with a permanent "site-code"), the device can be provided (on request) as an active format converter or filter formats (can "pass", only certain formats or only certain "site-code", etc.). The device can unify the various formats - eg. all transmission formats longer than 37 bits may be reduced to the form of 37 bit with a fixed or variable "site-code".

EXAMPLE OF CONNECTION DIAGRAM

EXAMPLES OF CONNECTION TO READER AND REGULAR CONTROLLER (POWER FROM REGULAR CONTROLLER)



EXAMPLES OF CONNECTION TO READER AND REGULAR CONTROLLER (POWER FROM REGULAR CONTROLLER AND AN EXTERNAL POWER SUPPLY)



TECHNICAL SPECIFICATIONS

POWER SUPPLY	9-13V DC
POWER CONSUMPTION	~100mA (without readers)
READER'S INTERFACE	WIEGAND
COMPATIBLE READERS	proximity, biometrics, barcodes, magnetic OCR, ICR, OMR, RFID UHF
TYPES OF CARD	compatibility with the reader technology
TRANSMISSION BETWEEN THE RECEIVER AND THE TRANSMITTER	radio 433MHz
TOTAL NUMBER OF BITS PROCESSED WIEGAND TRANSMISSION	to 200 bits
SUPPORT OUTPUT FORMATS	transparent - generated identically to the input (other: available on request)
BAUD RATE	9600bps
PROPAGATION TIME CHANGES OF INPUTS	to 100ms
MAXIMUM DISTANCE (in open space)	1000m
MULTIPLEKSER	4 beeps (buzzer, LED red, green, tamper)
POWER OUTPUT PERFORMANCE NOTE: YOU MUST TAKE INTO ACCOUNT THE POWER OF THE READER, INHERITANCES SECTIONAL TENSIONS AND WIRING	according to the possibilities of the control unit to which the device is connected
SIGNALING COMMUNICATION BETWEEN DEVICES	blue led - communication correct red led - no communication
DIMENSIONS [mm]	60 x 34 x 11 (PCB) - transmitter / 60 x 34 x 11 (PCB) - receiver
WEIGHT (g)	50 - transmitter / 50 - receiver
MOUNTING HOLES	4pcs - diameter 3mm - transmitter 4pcs - diameter 3mm - receiver
OPERATING TEMPERATURE	-10°C - +55°C
STORAGE TEMPERATURE	-20°C - +70°C
HUMIDITY RELATIVE	under 80%
OPTIONS	AC adapter 12V DC, 500mA; connection cables - 1m housing (material - ABS)

chomtech.pl sp. z o.o.
Plac Wolnica 13 lok. 10
31-060 Kraków
Polska
tel: +48 (12) 421-43-83
fax: +48 (12) 350-40-69
e-mail: biuro@chomtech.pl
www.chomtech.pl

rev.1.35_20221017