

### WIEGAND TRANSMITTER

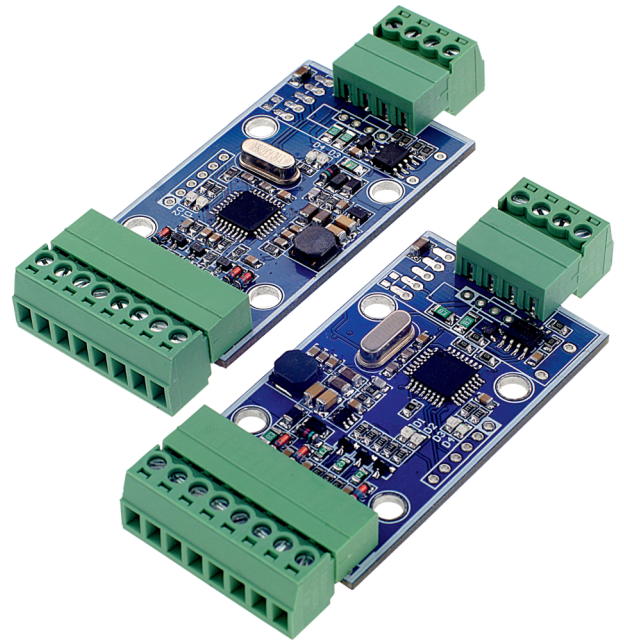
The transmitter with standard WIEGAND readers widely used in access control systems. Set the transmitter (WIEGAND-RS485) - receiver (RS485-WIEGAND) multiplexer / demultiplexer four digital signal (buzzer, LED1, LED2, tamper), increasing transmission distance of Wiegand reader controllers (access control) up to 1000m using twisted pair (CAT5e). It can work as an extension cable and repeater: translator or converter or encryption 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).

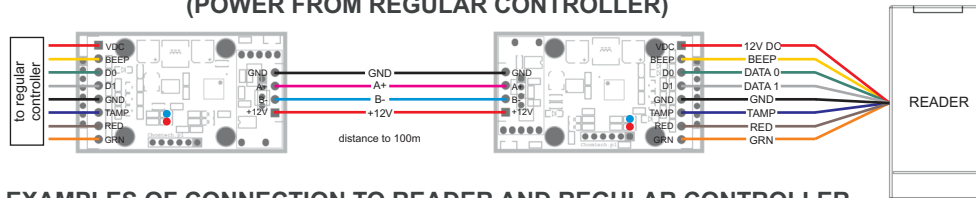


### OPTIONAL FUNCTIONALITY

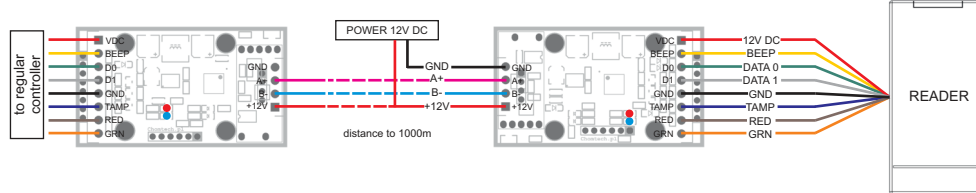
CONVERTER	WIEGAND - RS-485	
	AES 128bit, author, custom (on request)	
ENCRYPTION (encoder - decoder)	----- advanced functions (security) tamper with clip: activation of output tamper reader connected to the encoder to lock the transmission (unlocked possible special card) -----	
	static message on the decoder (switchboard) in violation of encoder (reader)	
TRANSLATOR	INPUT FORMAT	OUTPUT FORMAT
	H10301 26 bits	H10302 37 bits
	H10301 26 bits	H10304 37 bits
	H10301 26 bits	custom
	custom	H10301 26 bits
	H10302 37 bits	H10301 26 bits
	H10302 37 bits	H10304 37 bits
	H10302 37 bits	custom
	custom	H10302 37 bits
	H10304 37 bits	H10301 26 bits
	H10304 37 bits	H10302 37 bits
	H10304 37 bits	custom
	custom	H10304 37 bits
	custom	custom

# 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

<b>POWER SUPPLY</b>	9-13V DC
<b>POWER CONSUMPTION</b>	~100mA (without readers)
<b>READER'S INTERFACE</b>	WIEGAND
<b>COMPATIBLE READERS</b>	proximity, biometrics, barcodes, magnetic OCR, ICR, OMR, RFID UHF
<b>TYPES OF CARD</b>	compatibility with the reader technology
<b>TRANSMISSION BETWEEN THE RECEIVER AND THE TRANSMITTER</b>	RS-485
<b>TOTAL NUMBER OF BITS PROCESSED WIEGAND TRANSMISSION</b>	to 200 bits
<b>SUPPORT OUTPUT FORMATS</b>	transparent - generated identically to the input (other: available on request)
<b>BAUD RATE</b>	115200Kpbs
<b>PROPAGATION TIME CHANGES OF INPUTS</b>	to 100ms
<b>MAXIMUM DISTANCE</b>	1000m
<b>MULTIPLEKSER</b>	4 beeps (buzzer, LED red, green, tamper)
<b>POWER OUTPUT PERFORMANCE</b> 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
<b>SIGNALING COMMUNICATION BETWEEN DEVICES</b>	blue led - communication correct red led - no communication
<b>DIMENSIONS [mm]</b>	60 x 34 x 11 (PCB) - transmitter / 60 x 34 x 11 (PCB) - receiver
<b>WEIGHT (g)</b>	50 - transmitter / 50 - receiver
<b>MOUNTING HOLES</b>	4pcs - diameter 3mm - transmitter 4pcs - diameter 3mm - receiver
<b>OPERATING TEMPERATURE</b>	-10°C - +55°C
<b>STORAGE TEMPERATURE</b>	-20°C - +70°C
<b>HUMIDITY RELATIVE</b>	under 80%
<b>OPTIONS</b>	AC adapter 12V DC, 500mA; connection cables - 1m housing (material - ABS)