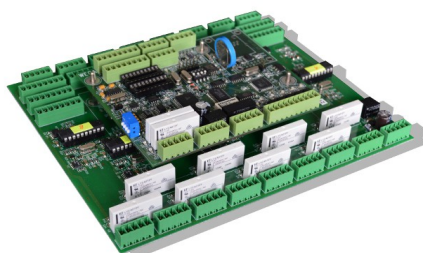


## WE\_CU control unit

This control unit is used for connection into the WIS access system. Its construction makes it designated for installation into the lower ceiling with an ability to connect two reading units. For the dragON technology it supports connection of reader heads with the RS 485 interface. It is equipped with a controlling microprocessor x51 and it is able to connect up to 8 reader heads WEGA of the KRBox type or up to 8 APERIO HUBs. It also contains new diagnostic LED diodes which check the functions of the functional departments of the reading unit. When it comes to operation, it can work in an online mode, with the ability to switch offline in case communication problems appear.



### Versions of the WE\_CU control unit

WIST02CU	<b>WE_CU control unit</b>	Plastic cover
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### Functional options

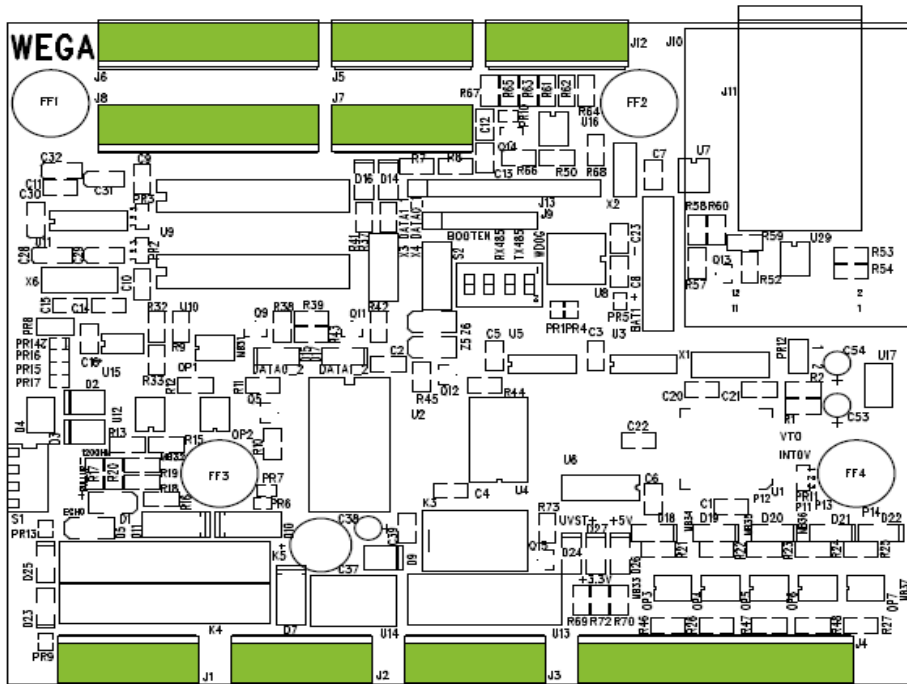
<b>Allowed cards chart capacity</b>	At least 10 000 records, RAM backed up by accumulator
<b>Chart of passages capacity</b>	10 000 records, RAM backed up by accumulator, preset OnLine event sending
<b>Passage without giving a reason, automatic arrival/departure switching</b>	Option of processing way – save/don't save the passage, open/close the door, set passage code, 8 switching times (hour, minute)
<b>Passage time</b>	Day, month, year, hour, minute, second, interruption code
<b>Interruption codes</b>	4 groups (arrival or departure, arrival, departure, system reports, each can contain 16384 different interruption codes)
<b>System reports</b>	EZS activation, cover removal, door locking, PIN input error, quiet alarm, passage without opening the door, improper door closing, opening the door by the key....
<b>Automatic door opening</b>	8 time intervals of open doors (interval validity according to the weekday or calendar, hour and minute beginning and interval end)
<b>Time zones</b>	31 time zones defined as a set of 1-32 time intervals, days of validity according to the weekday or work calendar



<b>Technical parameters</b>	
<b>Dimensions</b>	190mm x 140 mm x 70 mm
<b>Weight</b>	400g
<b>Voltage/Power supply</b>	9-14 V DC
<b>Max. consumption</b>	150 mA
<b>Data memory</b>	SRAM 128 kB backed up by internal battery
<b>Galvanic separation</b>	Only bus RS 485
<b>Communication interface</b>	RS 485
<b>Number of all or nothing relays</b>	For dragON technology needed to add product Input/Output module for the WE_CU dragON system
<b>Max. switched current</b>	6 A DC, LED diagnostic of relay conduct
<b>Inputs</b>	On WEGA reader head – door opening sensor
<b>Number of reading heads</b>	1 to 8
<b>Interface of connected reading heads</b>	WIEGAND, RS 485
<b>Display</b>	no
<b>Range of working temperatures</b>	-25 , +50°C
<b>IP coverage</b>	IP 56 – plastic cover



## Description of connectors



Connector		
	Pin	Meaning
<b>J</b>	1	GND ISO
	2	RS485 -
	3	RS 485 +
	4	0 V
	5	+ 12 V DC

Connector		
	Pin	Meaning
<b>J</b>	1	Rxd RS 232 1. reader head
	2	Txd RS 232 1. reader head
	3	DATA1 Wiegand 1. reader head
	4	DATA0 Wiegand 1 reader head
	5	Out - Output
	6	Red LED activ.log0
	7	Green LED activ.log. 0
	8	Buzzer activ.log. 0
<b>J</b>	1	+ 5 V DC - feed 1. head
	2	+12 V DC - feed 1. head
	3	0 V
	4	SDA - I2C data 1. head
	5	SCLK - I2C clock 1. head
<b>J</b>	1	Rxd RS 232 2. reader head
	2	Txd RS 232 2. reader head
	3	DATA1 Wiegand 2. reader head
	4	DATA0 Wiegand 2 reader head
	5	Out - Output
	6	Red LED activ.log0
	7	Green LED activ.log. 0
	8	Buzzer activ.log. 0
<b>J</b>	1	+ 5 V DC - feed 2. head
	2	+12 V DC - feed 2. head
	3	0 V
	4	SDA - I2C data 2. head
	5	SCLK - I2C clock 2. head

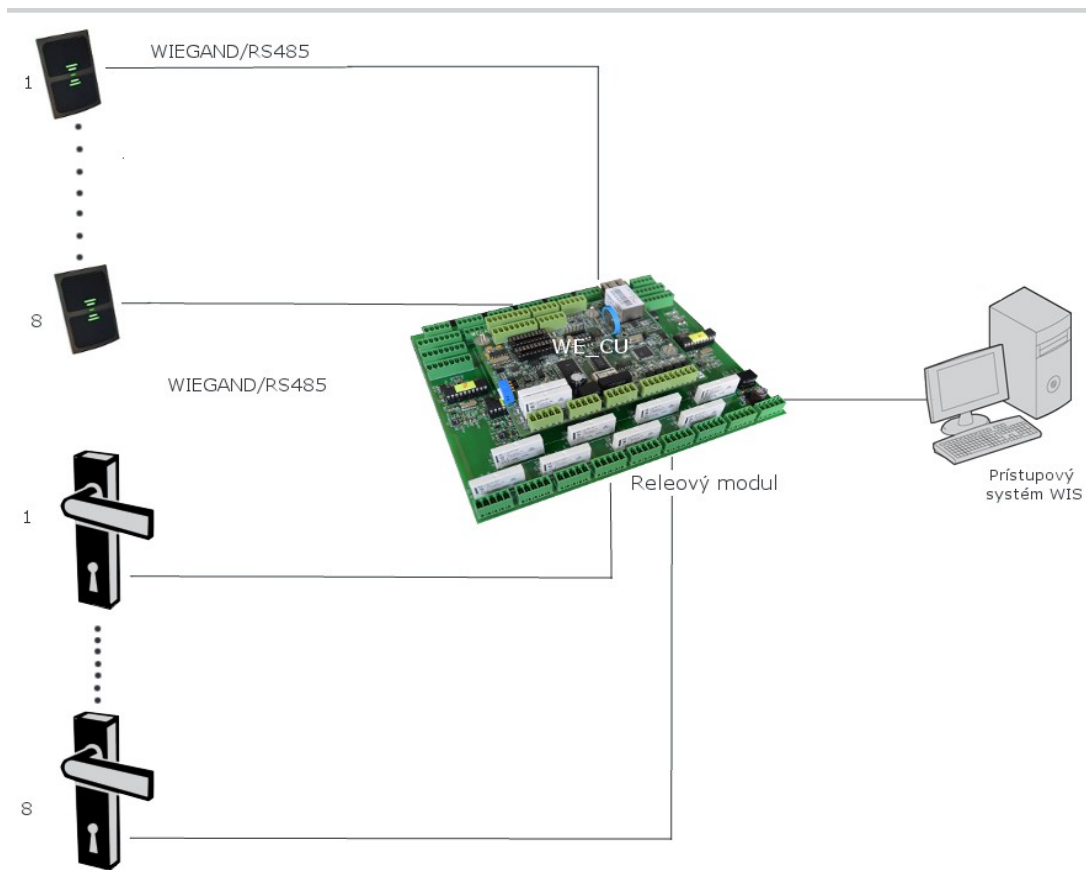


## Bus RS 485

DIP switch	Meaning in ON state
<b>Echo</b>	Automatic receive on
<b>PullUp+</b>	Line hold – pull up
<b>PullDown-</b>	Line hold – pull down
<b>Terminator 120 Ω</b>	End of bus integrated

While connecting the control unit to the RS 485 bus take care of impedance balance of the line, the 120 Ω must be connected at the beginning and the furthest connection point of the bus. The terminators PullUp and PullDown of the link must be connected only to one of the connected devices on the RS 485 bus.

## Explanation of dragON technology



## Inputs/Outputs

The control unit contains predefined inputs and outputs. Their function is apparent from the connector description J4. The active state of the inputs is given by the configuration of the control unit, and configuration can only be done from the configuration utility. While using the outputs (relay contacts) and controlling the charge of an inductive character the contacts must be connected correctly to the control unit. **The positive pole of the controlled charge always must be connected to the NO or NC contacts.** While controlling the electromagnetic locks the safety diode must be connected in reverse direction.



# Explanation of APERIO technology

