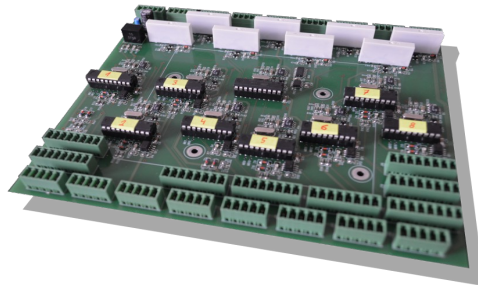


# Input/Output module for the WU\_CE dragON system



The module is made to work with the control unit WU\_CE. The module itself contains a connector field to connect 8 KRBox type reader heads with the WIEGAND or RS485 interface. It is offset with reliable powerful relays and enables conducting up to 8 singular relays. Contact type is optional. The module is capable of connecting 8 door opening sensors.

## Versions of the input/output module

|          |  |     |
|----------|--|-----|
| WIST02RE | <b>Input/output module for the WU_CE dragON system</b> | OEM |
|----------|--|-----|

## Technical parameters

|  |  |
|--|--|
| <b>Dimensions</b>                      | 165 X 195 x 30 mm                            |
| <b>Weight</b>                          | 400g   |
| <b>Voltage/Power supply</b>            | 9-14 V DC                                    |
| <b>Max. consumption</b>                | 250 mA pri 13V8                              |
| <b>Galvanic separation</b>             | No   |
| <b>Communication interface</b>         | RS 485                                       |
| <b>Number of all or nothing relays</b> | 1 to 8                                       |
| <b>Type of contacts</b>                | Choice between NO or NC                      |
| <b>Max. switched current</b>           | 6 A DC, LED diagnostics of conducting relays |
| <b>Inputs</b>                          | Door opening sensor                          |
| <b>Number of reading heads</b>         | 1 to 8                                       |

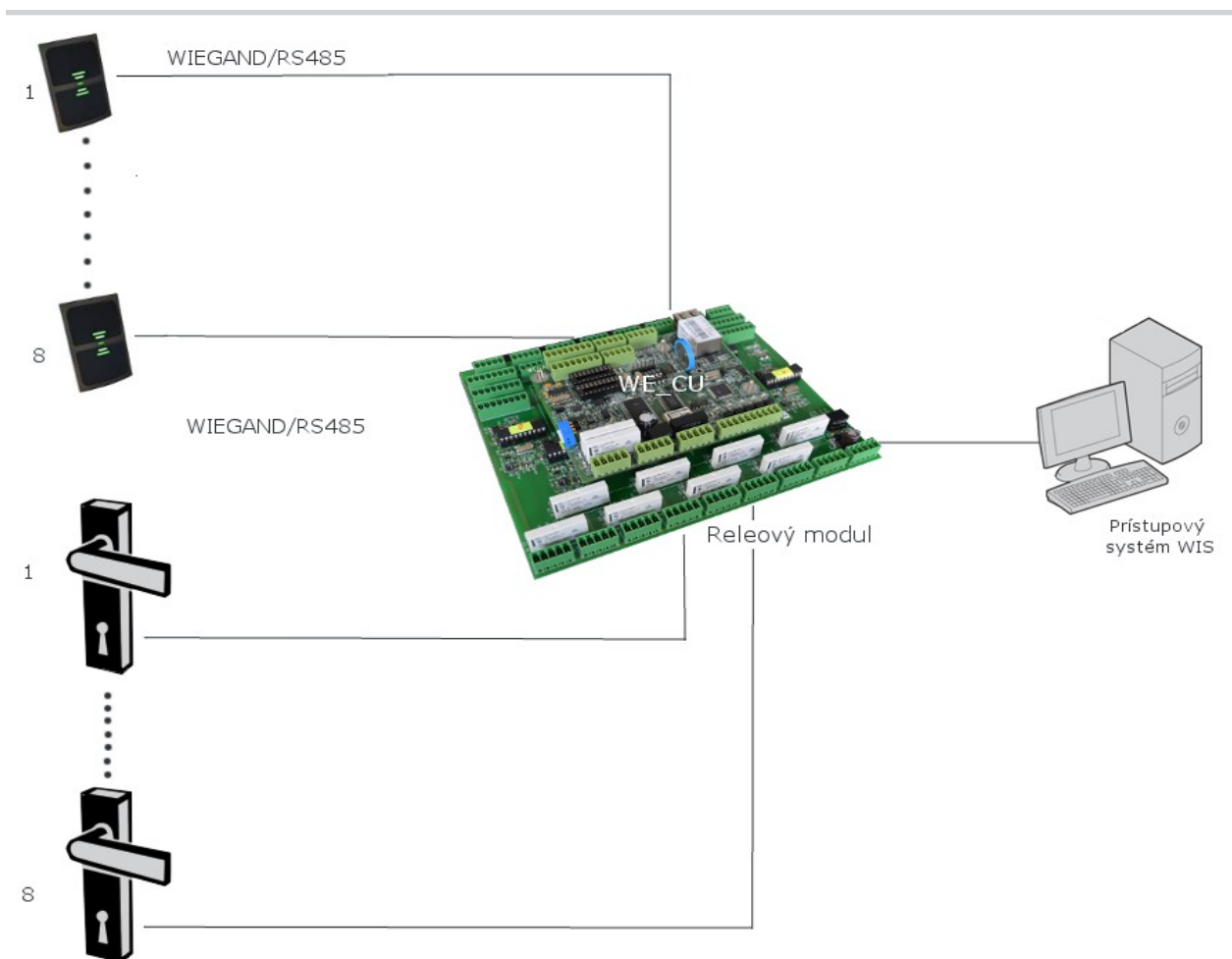


|   |                 |
|---|-----------------|
| <b>Interface of connected reading heads</b> | WIEGAND, RS 485 |
| <b>Display</b>                              | no              |
| <b>Range of working temperatures</b>        | -25 , +50°C     |
| <b>IP coverage</b>                          | IP 56           |

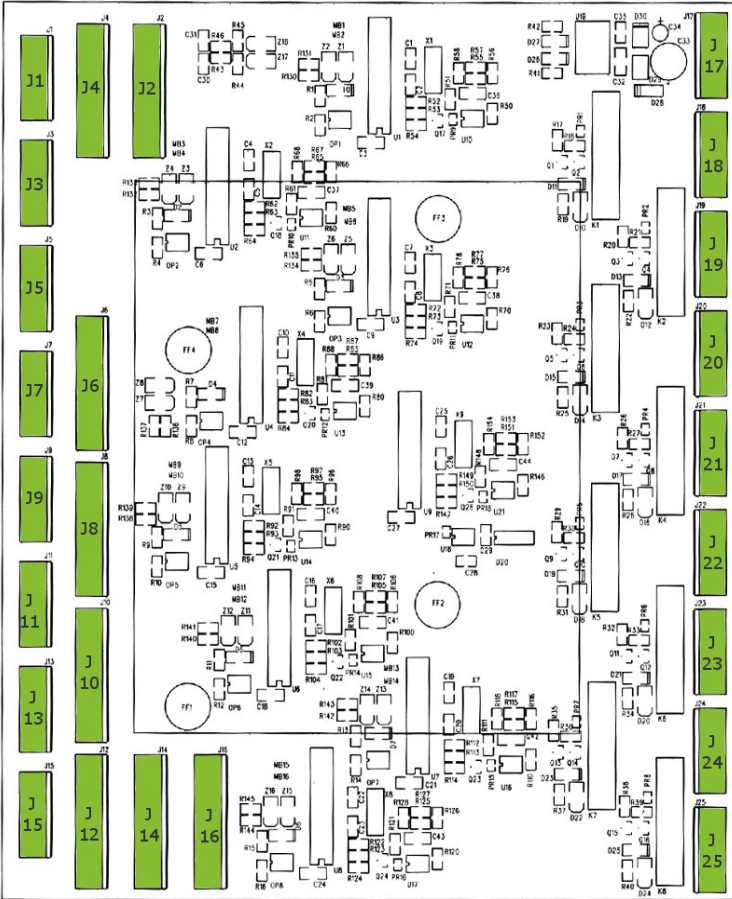
## Inputs/Outputs

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 the dragON technology



## Description of connectors



| Connector+ |     |           |
|------------|-----|-----------|
|            | Pin | Meaning   |
| <b>J17</b> | 1   | 0V        |
|            | 2   | + 12 V DC |
|            | 3   | RS +      |
|            | 4   | RS -      |
|            | 5   | GND ISO   |
| <b>J18</b> | 1   | 0 V       |
|            | 2   | + 12 V    |
|            | 3   | NC        |
|            | 4   | COM       |
|            | 5   | NO        |
| <b>J19</b> | 1   | 0 V       |
|            | 2   | + 12 V    |
|            | 3   | NC        |
|            | 4   | COM       |
|            | 5   | NO        |
| <b>J20</b> | 1   | 0 V       |
|            | 2   | + 12 V    |
|            | 3   | NC        |
|            | 4   | COM       |
|            | 5   | NO        |
| <b>J21</b> | 1   | 0 V       |
|            | 2   | + 12 V    |
|            | 3   | NC        |
|            | 4   | COM       |
|            | 5   | NO        |
| <b>J22</b> | 1   | 0 V       |
|            | 2   | + 12 V    |
|            | 3   | NC        |
|            | 4   | COM       |
|            | 5   | NO        |
| <b>J23</b> | 1   | 0 V       |
|            | 2   | + 12 V    |
|            | 3   | NC        |
|            | 4   | COM       |
|            | 5   | NO        |
| <b>J24</b> | 1   | 0V        |
|            | 2   | + 12 V    |
|            | 3   | NC        |
|            | 4   | COM       |
|            | 5   | NO        |
| <b>J25</b> | 1   | 0 V       |
|            | 2   | + 12 V    |
|            | 3   | NC        |
|            | 4   | COM       |
|            | 5   | NO        |



| Connector |     |                              |
|-----------|-----|------------------------------|
|           | Pin | Meaning                      |
| <b>J1</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>J2</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>J3</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>J4</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>J5</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>J6</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>J7</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>J8</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>J9</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     |

| Connector+ |     |                              |
|------------|-----|------------------------------|
|            | Pin | Meaning                      |
| <b>J11</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>J10</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>J12</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>J13</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>J14</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>J15</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>J16</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          |

