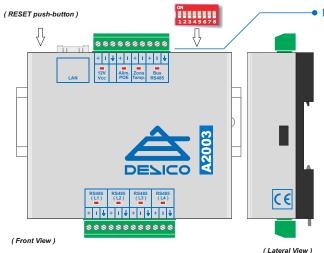
## **A2003 - ACCESS CONTROL CONTROLLER**



## SYSTEM SETUP:

Initial system setup is made through embedded web interface. Once 12V supply and Ethernet network connection to device has done, type 192.168.1.252 IP address on a compatible web browser to get access to A2003 configuration. Wait until authentication dialog appears. Use "desico" as username and "desico" as password to gain access to configuration. Wait until web page load ends. On shown interface, there is a tab menu system to navigate through different configuration options.

The device only requires IPAddress and TCP/UDP ports setup to start work. These setup are made in a "Configuration" tab, "Network" Button. All other configurations are supplied by Vigiplus during programming process.

Is highly recommended to change default username and password once initial setup done. This configuration is made on "Configuration" tab, "Access" Button.

On "Monitor" tab there is a synoptic view where the status of 32 A2003L door devices are shown. Once an A2003L unit is in communication with controller, corresponding status dialog will activate, showing Tamper state, Opening Relay state, Manual Aperture Button state, Door Alarm Status state, and power supply voltage.

## MICROSWITCH SETUP:

GND bus A2003L 1

On:

Off:

| Address<br>A2003     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8 |
|----------------------|-----|-----|-----|-----|-----|-----|-----|---|
| Address 0:           | off | off | off | off | off |     |     |   |
| Address 1:           | ON  | off | off | off | off |     |     |   |
| Address 2:           | off | ON  | off | off | off |     |     |   |
| Address 3:           | ON  | ON  | off | off | off |     |     |   |
| Address 4:           | off | off | ON  | off | off |     |     |   |
| Address 5:           | ON  | off | ON  | off | off |     |     |   |
| Address 6:           | off | ON  | ON  | off | off |     |     |   |
| Address 7:           | ON  | ON  | ON  | off | off |     |     |   |
| Address 8:           | off | off | off | ON  | off |     |     |   |
| Address 9:           | ON  | off | off | ON  | off |     |     |   |
| Address 10:          | off | ON  | off | ON  | off |     |     |   |
| Address 11:          | ON  | ON  | off | ON  | off |     |     |   |
| Address 12:          | off | off | ON  | ON  | off |     |     |   |
| Address 13:          | ON  | off | ON  | ON  | off |     |     |   |
| Address 14:          | off | ON  | ON  | ON  | off |     |     |   |
| Address 15:          | ON  | ON  | ON  | ON  | off |     |     |   |
| Address 16:          | off | off | off | off | ON  |     |     |   |
| Address 17:          | ON  | off | off | off | ON  |     |     |   |
| Address 18:          | off | ON  | off | off | ON  |     |     |   |
| Address 19:          | ON  | ON  | off | off | ON  |     |     |   |
| Address 20:          | off | off | ON  | off | ON  |     |     |   |
| Address 21:          | ON  | off | ON  | off | ON  |     |     |   |
| Address 22:          | off | ON  | ON  | off | ON  |     |     |   |
| Address 23:          | ON  | ON  | ON  | off | ON  |     |     |   |
| Address 24:          | off | off | off | ON  | ON  |     |     |   |
| Address 25:          | ON  | off | off | ON  | ON  |     |     |   |
| Address 26:          | off | ON  | off | ON  | ON  |     |     |   |
| Address 27:          | ON  | ON  | off | ON  | ON  |     |     |   |
| Address 28:          | off | off | ON  | ON  | ON  |     |     |   |
| Address 29:          | ON  | off | ON  | ON  | ON  |     |     |   |
| Address 30:          | off | ON  | ON  | ON  | ON  |     |     |   |
| Address 31:          | ON  | ON  | ON  | ON  | ON  |     |     |   |
| Bus load<br>A2003    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8 |
| On:                  |     |     |     |     |     | ON  |     |   |
| Off:                 |     |     |     |     |     | off |     |   |
| Connection           | 2 1 | 2   | 3   | 4   | 5   | 6   | 7   | 8 |
| GND bus A2003<br>On: | , ' |     |     |     |     |     | ON  | Ü |
| J.I.                 |     |     |     |     |     |     | OIN |   |

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### TECHNICAL INSTALLATION CHARACTERISTICS

| Power supply:  |                                          | 12 Vcc ± 2 Vcc.              |
|----------------|------------------------------------------|------------------------------|
|                |                                          | PoE Type 1 according 802.3af |
| Consumption:   | Nominal ( Max )                          | 300 mA. ( 350 mA. )          |
| Weight:        |                                          | 102 gr.                      |
| Sizes:         | Width x Height (with connectors ) x Deep | 101 x 106 x 24 mm.           |
| Temperature ra | ange:                                    | -10°C ÷ +55°C                |
| Relative humid | lity without condensation:               | < 93%                        |
| Installation:  |                                          | DIN Rail (35mm,simetr.)      |
|                |                                          |                              |

## WIRE AND CONNECTION CHARACTERISTICS

#### Connection

| Pluggable connector: ( max wire size 1,5n |
|-------------------------------------------|
|-------------------------------------------|

#### Bus wiring

Rs485 homologated wire, according ANSI EIA/TIA-485:

- -Flexible twisted shielded pair, secction 0'25 0'35 mm2.
- -Low capacity (40 ÷ 50 pF/m).
- -Characteristic impedance 1200hm.

Maximum Rs485 bus length (with specified wire):

1200 mts.

## INPUT / OUTPUT CONNECTIONS

### Input connections:

| Tamper state detection input: | Shortable, NC idle state |
|-------------------------------|--------------------------|
|-------------------------------|--------------------------|

#### Output connections:

12V Output from PoE: According 802.3af Type 1, 12.95W\* (Max)

#### NOTE ABOUT PoE SUPPLYING:

When using PoE, for devices supplying, there are some requirements related to auxiliary devices connection, like A2003L door units or door locks.

PoE supply is a floating supply type with an negative regulation path so is highly recommended to KEEP the PoE supplied devices TOTALY ISOLATED from another power supply devices on installation. So is not allowed to connect PoE supplied A2003, to an A2003L door units being feed by different power supply. RS485 connection between PoE and non PoE supplied devices can generate high potential differences on GND enough to cause damage on Bus components.

\*To this theoretical maximum of 12.95W you have to subtract A2003 self consumption and apply a performance average about 80%.

\*Up to 32 A2003L units by each A2003.

## **A2003 - ACCESS CONTROL CONTROLLER**

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# GENERAL CONNECTION VIEW (Simplified): **BACK TO FACTORY DEFAULTS:** Start up the device, wait until 12V LED lights continuously (about 5 seconds). Using an appropriated tool, press the reset button through hole located on front panel, close to RJ45 Ethernet connector. Keep pressing until front pannel LED's (except PoE LED), starts to blink fast. Release the button and LED will decrease its blinking speed, indicating you have entered to reset function. Control Once in this state, if button is pressed again for 2 seconds, system Application will back to factory defaults. This means that all configurations and data will be erased and device IP will restored to 192.168.1.252. SW7 y SW8 In case not pressing the button again, removing power supply and set ON connecting again will keep the current settings and data. 888888888 + 1 ‡ + 1 + 1 + 1 ‡ Cover Tamper A2003 RS485 (L3) RS485 (L4) L N ‡ + 1 + 1 + 1 + 1 + 1 + 1 8 8 8 \*\*\*\*\*\*\*\* Ground connection on a single point of RS485 bus RS485 bus to another A2003L units (Up to 32\*) RS485 bus to another 230VAC A2003L units (Up to 32\*) + 1 + 1 + 1 + 1 , 12V Puls. Zona RS485 Voc Apart Tamp. (C)