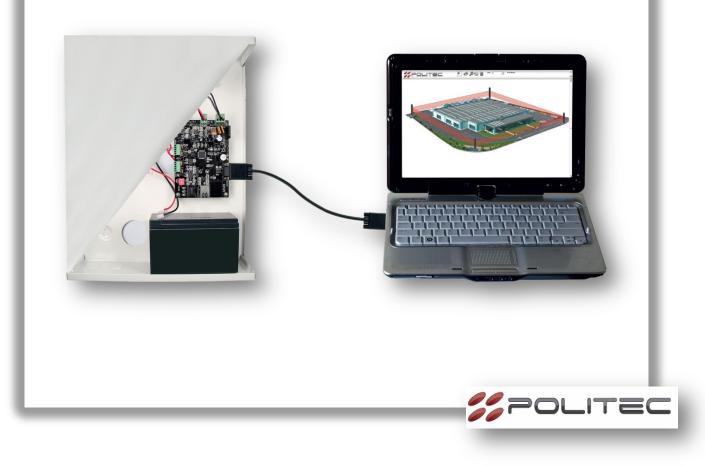


Monitoring control panel Installation manual & cabling

V 2.0.1



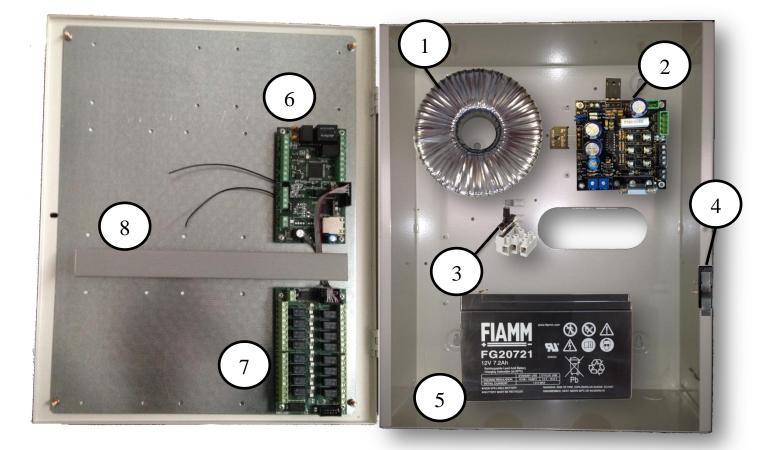


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1. ADEBUS COMPONENTS

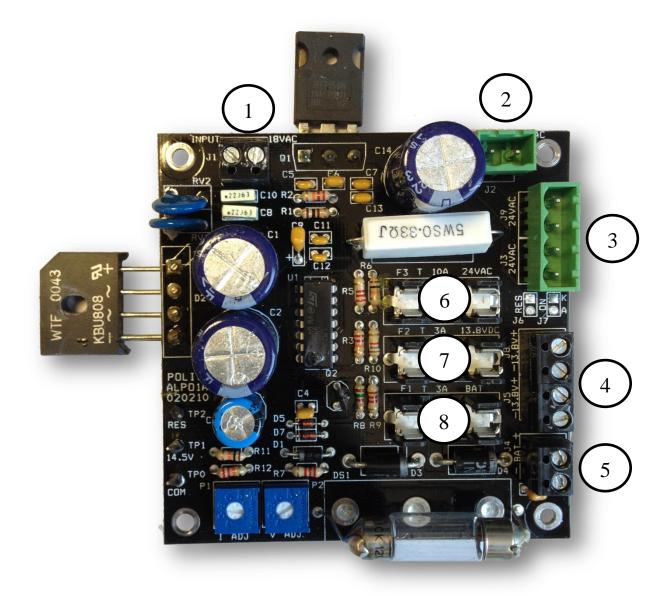


| | CODICE POLITEC | DESCRIZIONE |
|---|--------------------------|-----------------------------|
| 1 | TRASF LAR22S | Trasformer 18/24 Vac |
| 2 | ALPO1B | Supply card |
| 3 | MORS 3 | CONN. Fuse |
| 4 | ТА | MPER |
| 5 | BATTERY (Non inclusa) | Battery location up to 17Ah |
| 6 | ADEBUS SC | CA230 card |
| 7 | ADEBUS ESP | Expansion 16 relay output |
| 8 | Cable | e passage |



2. CARD DESCRIPTION

ALPO1B Supply Card

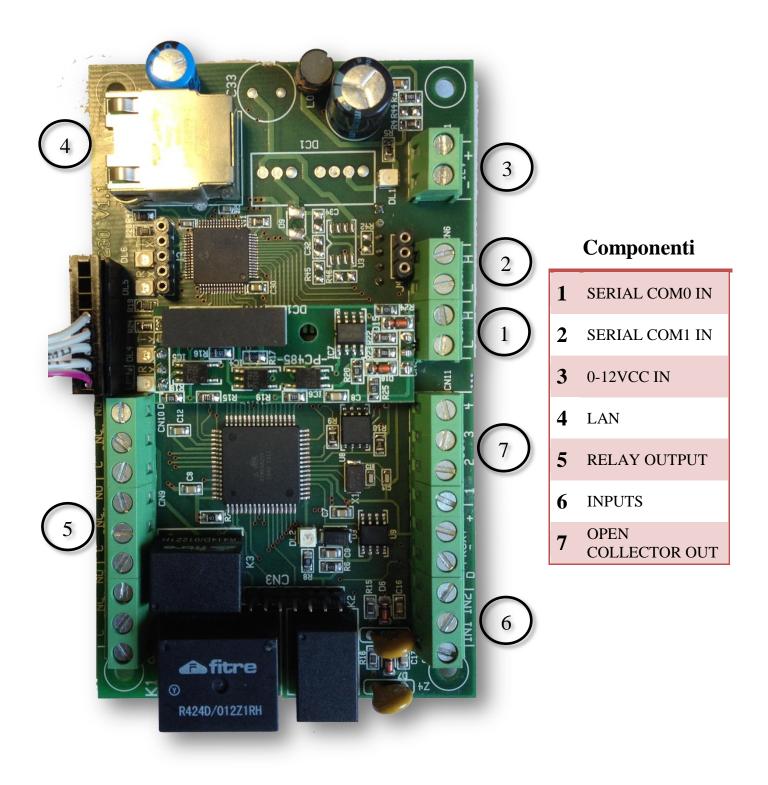


Componenti

| 1 | 18VAC IN | 5 | BATTERY OUT |
|---|---------------|---|-------------------|
| 2 | 24VAC IN | 6 | FUSE 10A (24Vac) |
| 3 | 24VAC OUT | 7 | FUSE 3A (12Vdc) |
| 4 | 0-13,8VDC OUT | 8 | FUSE 3A (battery) |

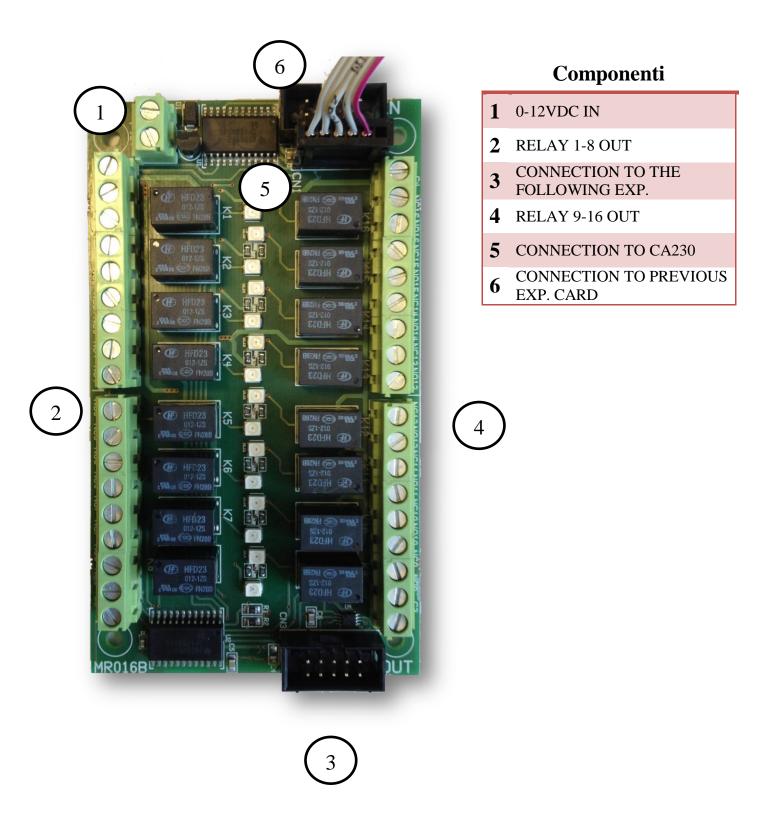


ADEBUS SC ADEBUS CA230 Motherboard





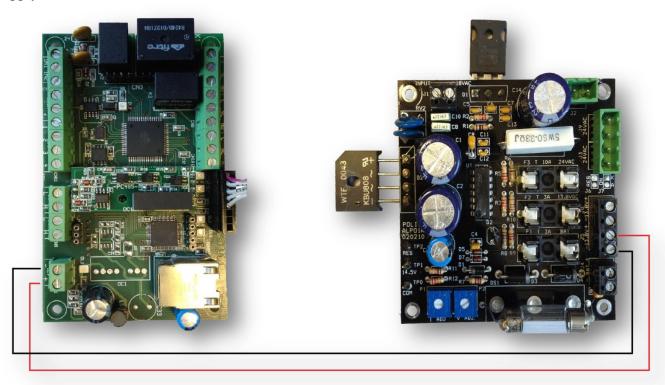
ADEBUS ESP 16 relay output expansion



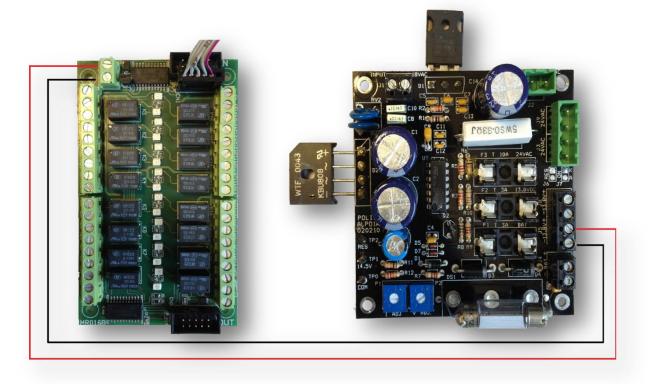


3.START OPERATING

1. Supply connections must be made between the card ALPO1B and the card CA230:



2. Supply connections must be made between the card ALPO1B and the Expansions card (if present):





- 4. Connect the negative of all the barriers, using the twisted wires of the BUS cable Blue / White (1), and connect them to the negative of the "COM0" or "COM1" through a clamp (not included), starting from the last barrier.
- 5. Starting from the last barrier connected in common barriers through the cable wire BUS White / Orange (2) at the "B" of MES9C and connect to the "L" (COM0) of the card CA230.
- 6. Starting from the last barrier connected in common barriers through the cable wire BUS Orange / White (3) output "B" of MES9C and connect to the "H" (COM0) of the card CA230.
- 2 1.03 i in t 611 日間 - 館_ 1 TU-Hell 18--6 III-H 10 - ... 19 15 BLU/BIANCO+BIANCO/BLU (COM) **BIANCO/ARANCIO (B)** ARANCIO/BIANCO (A) RELE 1 2 NO С 3 NC RELE 2 NO MORSETTO RELE 3 NC NC COM0 L ·H ·H COM1 + - LAN
- 7. Connect the shield (4) the common barriers and card CA230.

N.B.: Two-pair shielded twisted cable for RS485 0.50 mm (eg Belden cod. 31074A)



Make sure the connection of relay expansion boards with ADEBUS through Flat cables.



Output relay connections



The operating condition of the contacts marked on the board (NC, NO) refers to the relay at rest, if the relays are energized condition of operation is reversed

- NB: The connections of the relay outputs are divided into 4 groups for each expansion board, and common are the following:
 - C1 = common first 4 relay
 - C2 = common second 4 relay
 - C3 = common tird 4 relay
 - C4 = common fourt 4 relay



4. ADEBUS CARD (CA230) FIRST CONNECTION THROUGH IP 192.168.1.222

Connect the Ethernet cable the PC to the connector lan of the card ca230.

N.B.: for the first login:

username: admin, password: admin.

Overview

| | CA230M Barrier Mar | ager |
|-------------------------|--|------|
| Overview | Welcome! | |
| ystem onfiguration | Stack Version: v5.25 | |
| | Build Date: Jun 6 2013 08:41:45 | |
| arriers status | Firmware Version: 1.24 | |
| arriers detail | MAC: 00:04:A3:BE:F6:EC | |
| onfiguration | You are connected to CA230M Barrier Manager web server. Using this pages you can configure all the working parameters, choose an option from the menu on the left. | |
| outputs polarity | Outputs: (dick to tage | le) |
| OM0 Setup | On board | |
| OM1 Setup | | |
| | | |
| letwork onfiguration | Ext. module 2 | |
| | Ext. module 3 | |
| assword change | Ext. module 4 | |
| | Ext. module 5 | |
| | Ext. module 6 • • • • • • • • • • • • • • • • • • | |
| | Inputs: | |
| | Open Open | |
| | Open Open | |
| | Time: | |
| | | |
| | |) |
| | | |

| Outputs | Relay enabled on Adebus card (on-board 3 relay + 4 open collector to the positive) and the expansion cards (Ext. Module 1, the first card with 16 relays) |
|---------|---|
| Inputs | Indicates the status of the 2 inputs Adebus (open, close) |
| Time | when connected to the internet indicates the current time |
| | |



Network configuration

| | | | | CA230M Barrier Manager |
|--------------------------|-----------|---------------------|-------------------------|------------------------|
|)verview | Boar | d Config | uration | |
| System configuration | This page | allows the configu | ration of the board's n | etwork settings. |
| arriers status | | | ings may cause the bo | |
| arriers detail | connec | tivity. Recovery of | otions will be provided | on the next page. |
| Outputs configuration | | | | |
| | N | /eb server port: | 80 | |
| outputs polarity | I | P Address: | 192.168.10.248 | |
| OM0 Setup | S | ubnet Mask: | 255.255.255.0 | |
| OM1 Setup | G | ateway: | 192.168.1.1 | |
| etwork | P | rimary DNS: | 212.216.112.112 | |
| onfiguration | S | econdary DNS: | 213.205.32.70 | |
| assword change | | | Save Config | |
| assine a change | | | | |

- Enter the new IP address.
- The default is 192.168.1.222
- Change the other settings, depending on the local network or internet connection ...



Password change

| | CA230M Barrier Manage |
|--------------------------|---|
| Overview | Password change |
| System configuration | This page allows to change the password for admin login. |
| Barriers status | CAUTION: Incorrect settings may cause the board to lose network |
| Barriers detail | connectivity. Recovery options will be provided on the next page. |
| Outputs configuration | Fill the following fields in order to change the admin password: |
| Outputs polarity | Actual password: New password: |
| COMO Setup | Retype password: |
| COM1 Setup | Save |
| letwork configuration | |

Modify the system password for remote access via the browser.

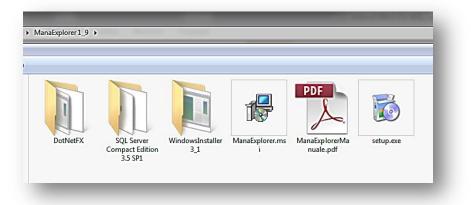


N.B.: You can restore the default settings (IP = 192.168.1.222) by shorting pin 3 to pin 4 of connector for programming the board CA230. Wait a couple of seconds, turn off and remove the short. The next time the system will have the default configuration.



5. ADEBUSEXPLORER INSTALLATION

Install the supplied program AdebusExplorer using the setup.exe file



6. ADEBUSEXPLORER

AdebusExplorer is a system of supervision and configuration for the barriers MANA, PARVIS and SANDOR plus SMA and works together with hardware cards ADEBUS, prepared with the appropriate firmware, reacheable via a TCP / IP connection.

The software supports up to a maximum of 32 columns and can be used in three different languages (English, French, Hungarian).

PC – ADEBUS CONNECTION WITH NETWORK CABLE (direct connection)

- Network Connections (Windows 7);
- Click with the left mouse button and click Local Area Connection (LAN)

| Modifica Visualizza Strun | enti ? | = |
|---|---|---|
| Pagina iniziale Pannello di controllo | Visualizzare le informazioni di base sulla rete e configurare le connessioni | 0 |
| Modifica impostazioni scheda Modifica impostazioni di condivisione avanzate | CAD-PC Rete Internet (Questo computer) Visualizar reti attive Connetti o disconnetti | |
| | Rete Tipo accesso Internet Rete aziendale Connession © Connessione alla rete local (LAN) Connession Connessione alla rete local | |
| | Modifica impostazioni di rete | |
| | Configura nuova connessione o rete Configurare una connessione wireless, a banda larga, remota, ad hoc o VPN oppure configurare un router o un punto di accesso. | |
| | Connessione a una rete Connettere o riconnettere una connessione di rete wireless, cablata, remota o VPN. | |
| | Selezione gruppo home e opzioni di condivisione Accedere ai file e alle stampanti disponibili in altri computer della rete oppure modificare le impostazioni di condivisione. | |



• With the left mouse button click and choose properties. Opened up the window with the left mouse button select Internet Protocol and click Properties.

| Stato di Connessione alla rete locale (LAN) | Proprietà - Connessione alla rete locale (LAN) |
|--|---|
| Connessione Connettività IPv4: Internet Connettività IPv6: Nessun accesso a Internet Stato supporto: Abilitato Durata: 2 giorni 00:28:53 Velocità: 1.0 Gbps | Connetti tramite: Realtek PCle GBE Family Controller La connessione utilizza gli elementi seguenti: Configura La connessione utilizza gli elementi seguenti: Periodollo Internet versione 6 (TCP/IPv6) Protocollo Internet versione 4 (TCP/IPv4) Driver di I/O del maorina di individuazione topologia liv |
| Attività Inviati Ricevuti Byte: 341.167.511 1.247.513.450 | Installa Disinstalla Proprietà Descrizione TCP/IP. Protocollo predefinito per le WAN che permette la comunicazione tra diverse reti interconnesse. |
| Proprietà () Disabilita Esegui diagnosi Chiudi | OK Annulla |

• Choose, if not already selected, use a different IP address than the card CA230 (default is 192.168.1.222) such as the address 192.168.1.223 Subnet Mask and click so that it appears as follows: 255.255.255.0. Save with OK.

| Proprietà - Protocollo Internet versione 4 (TCP/IPv4) | Proprietà - Protocollo Internet versione 4 (TCP/IPv4) |
|---|---|
| Generale | Generale |
| È possibile ottenere l'assegnazione automatica delle impostazioni IP se la rete supporta tale caratteristica. In caso contrario, sarà necessario richiedere all'amministratore di rete le impostazioni IP corrette. | È possibile ottenere l'assegnazione automatica delle impostazioni IP se la rete supporta tale caratteristica. In caso contrario, sarà necessario richiedere all'amministratore di rete le impostazioni IP corrette. |
| Ottioni automaticamente un indirizzo IP | 🔘 Ottieni automaticamente un indirizzo IP |
| Utilizza il seguente indirizzo IP: | O Utilizza il seguente indirizzo IP: |
| Indirizzo IP: | Indirizzo IP: 192 . 168 . 1 . 223 |
| Subnet mask: | Subnet mask: 255 . 255 . 0 |
| Gateway predefinito: | Gateway predefinito: |
| Ottieni indirizzo server DNS automaticamente | Ottieni indirizzo server DNS automaticamente |
| O Utilizza i seguenti indirizzi server DNS: | Utilizza i seguenti indirizzi server DNS: |
| Server DNS preferito: | Server DNS preferito: |
| Server DNS alternativo: | Server DNS alternativo: |
| Convalida impostazioni all'uscita | Convalida impostazioni all'uscita Avanzate |
| OK Annulla | OK Annula |
| | |



CONFIGURATION

The software AdebusExplorer requires a PC running Windows XP or later.

Maschera principale

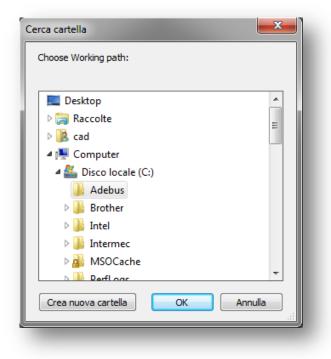
All' accensione il programma presenta le funzioni disponibili, il cui utilizzo è illustrato qui di seguito. Procedere secondo l'ordine illustrato in seguito.

| Adebus Explorer - V2.0.1 - Standard | |
|-------------------------------------|--|
| File Archive Utility | |
| Site Name Connect | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |



Working path

Allows you to change the working folder of the program where the database is created events ManaDB.sdf downloaded. When you first start itself as the default folder "My Documents" and select the option to create subfolders using the Create New Folder button. With the Ok button to confirm your selection with the Cancel button, the system uses the "Documents" folder as a Working path.



The correct procedure to change an existing Working path involves the following steps:

| | Description |
|-------------|---|
| 1 C | Close AdebusExplorer. |
| | Using Windows Explorer to move the entire folder corresponding to the Working path, and all the files it contains, to the new location. |
| 3 L | Launch AdebusExplorer. |
| 4 I1 | Indicete the new Working path. |



Password Management

| 🌫 Adebus Explorer - V2.0.1 - Standard | |
|---------------------------------------|--|
| File Archive Utility | |
| Working path | |
| Site editor | ✓ … Connect |
| Configuration mode | |
| Language | • |
| Change standard user password | |
| Change admin password | |
| Logout | |
| Exit | |
| | Change password Actual password New password Retype new password OK Cancel |

 Admin
 For the first time enter the desired password freeing up the section "Actual password"

 Admin
 The Admin has permission to change the settings of the individual columns (as explained below) as well as view the status of each

 Bandard
 For the first time enter the desired password freeing up the section "Actual password"

 The standard user can only view the status of each column.
 The standard user can only view the status of each column.



Site editor

Displays the list of configured CA230 cards, each card represents a different site:

| Name | Address | Port | New |
|----------------|---------------|------|--------|
| 7567 | 192.168.1.224 | 8000 | |
| Politec test | 192.168.1.222 | 8000 | |
| Politec Test 2 | 192.168.1.223 | 8000 | Edit |
| | | | |
| | | | Delete |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | Close |
| | | | Close |

The New button allows you to add a new site:

| Edit site | | | |
|-----------|---------------|--------|--|
| | | | |
| Name | Politec test | | |
| Address | 192.168.1.222 | | |
| Port | 8000 | | |
| Image | esterni23.jpg | | |
| Ok | | Cancel | |

| Parameter | Description | Default |
|-----------|--|---------------|
| Name | Descriptive name to associate with the site | |
| Address | IP address of the CA230, format: aaa.bbb.ccc.ddd | 192.168.1.222 |
| Port | Communication Port CA230 Card | 8000 |
| Image | Picture for use as a graphical map | |



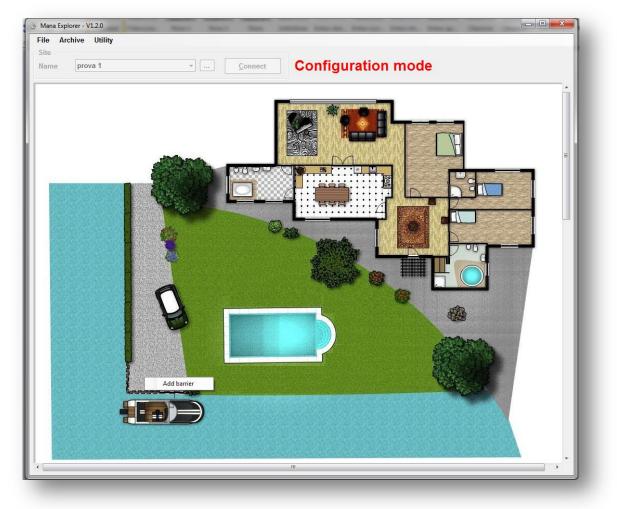
Configuration mode

Enable the graphical configuration of barriers.

The Configuration menu mode is used only if the software is not connected to any site, otherwise the menu is disabled.

To graphically configure a site, you must first select it from the drop box located inside the Site, and then click the File menu-> Configuration mode.

The activation of the configuration mode is indicated by a special red lettering at the top / right of the main screen.



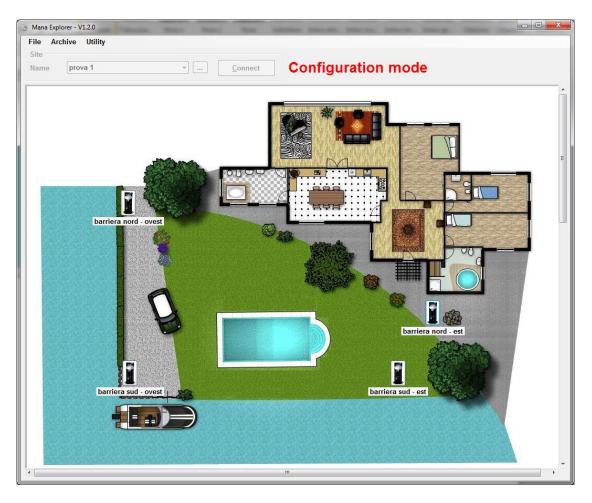
To add a barrier just place the mouse cursor at a point on the map and click with the right mouse button. From the popup menu select Add barrier.

POLITEC

| 🛃 Add barrier | | | | × |
|---------------|-----------|---|--------|---|
| Barrier info | | | | |
| Barrier | 3 | ~ | | |
| Name | Barrier 3 | | | |
| | | | | |
| | Ok | | Cancel | |

| Parameter | Description | Default |
|-----------|--|---------|
| Barrier | Address of the barrier. The software supports a maximum of 32 barriers. The selection box displays only addresses the barriers have not yet been configured. | |
| Name | Description of the barrier. The entered text is displayed on the map, just below the design of the barrier. Optional field. | |

The OK button confirms the addition of the barrier and returns to the main form.



"POLITEC

Placing the mouse cursor over the drawing of a barrier and holding the button left you can move the barrier inside the map.

With the right mouse button displays a menu to rename or delete the previously configured barrier.

To exit the configuration menu again and select File-> Configuration mode.

Address setup

Once you have entered the barriers on the plan, connect to the site to address the individual columns connected to the card via the Utility menu CA230-> Address setup.

The addressing command can be used only if the board CA230 is connected via a local area network.

| 🛃 Address setup | |
|-----------------|------------------------------------|
| | can be used only on connection! |
| Porta COM | СОМ 1 |
| Serial number | 100003 |
| Address | 3 |
| Ok | Cancel |

| Parameter | Description | Default |
|-----------|--|---------|
| Porta COM | COM port of the card which is physically connected to CA230 barrier. Each card provides two serial ports: COM 0, COM 1. | COM 0 |
| Serial | Serial number of the barrier | |
| Address | Address to be set on the barrier. | 1 |

N.B.: addressing should be performed before setting up barriers via the web interface.

N.B.: the serial number of the barrier is present on the label on the motherboard (MES9012) and on the basis of the profile itself.



Column detail

When connecting to a site is active, the barriers set up take on different colors depending on the state:



| Status | Color |
|-----------|---------------------|
| Stand-by | White |
| Pre-alarm | Yellow |
| Alarm | Red |
| Tamper | Sky-blue |
| Offline | Grey with black "X" |

For all the barriers in a state different from offline, you can access the detail form: Place the mouse cursor over the image of the barrier and click with the left mouse button.

| 🔜 Detail of barrier number 3 | | | | |
|--|---|---------------|--------------|---|
| Status Alarm Vin out range Tamper Vin low Signal low Power low Mask Ray test Heater Rele Alarm LED In 1 1 2 May low In 1 Ray laarm In 2 In 3 In 3 Ray nask In 3 Verver voltage 8.2 V Current 100 mA Temperature 27 RX1 level 0.0 V RX2 level 0.0 V RX3 level 0.0 | Serial No. 00 Soft. config 🔛 Rx channel | 0 Cross | Rx channel 0 | Outputs Advanced Cross A. Crawl Opt./Wire Sig. low Bypass Random delay A. Mask Ray 1 test Ray 2 test Ray 3 test Ray 4 test Spec. inp. Force HW config Send |

Es. barrier in:

- Status: alarm with 1, 2 and 3 beams interrupted;
- Configuration: 4 active beams in AND mode configured via software.

| Section | Description | Enable |
|-------------------|------------------------------|-----------|
| Status | Real time status | read-only |
| Analog values | Analogue values in real time | read-only |
| Configuration | Actual configuratio. | read-only |
| New configuration | New conf. | writing |

N.B.: for details of settings, refer to "Appendix B" on p. 33.

New configuration

In this section there are new configuration parameters that will be inserted into the barrier concerned editable only by the Admin.

The Force HW Config button resets the hardware configuration set with the DIP switches on the board of the barrier.

The Copy button copies the current configuration of the barrier in the New Configuration and selecting the desired options you can set up the barrier.

| 🖶 Detail of barrier number 3 | |
|---|--|
| Status Configuration Alarm Vin out range Model Mana Tamper Vin low Serial No. 0000003 Signal low Power low Soft. config Ray Mask Ray test Rx channel 0 Cross In Heater Rele In 1 0 A. Crawl Beam1 Opt. /wire Beam1 Opt. /wire In Alarm LED In 1 0 Beam1 Opt. /wire Beam1 A. Crawl Beam1 A. Mask Rx Rx | New configuration Advanced Rx channel 0 Cross Tx channel 0 A. Crawl Beam1 Opt./Wire Beam12 Sig. low And-Rdm Bypass And12 Random delay Rx1 A. Mask Rx2 Ray 1 test Rx3 Ray 2 test Sig. low 1 Ray 3 test Sig. low 1 Spec. inp. Speed (ms) 200 v Force HW config |

Es.: in addition to the initial configuration has been added to the function of disqualification and the response time has been increased.

The Send button sends the selected configuration to the barrier in the New Configuration.

| 🔜 Detail of barrier number 3 | | | | |
|---|-------------------------------|--------------------------------|----------------------------------|------------------------|
| Status Alarm | Configuration Model | Mana | New configuration | |
| Tamper Vin out range | Model Serial No. | 000003 | Polarity Outputs | Advanced |
| Signal low Power low | Soft. config | | Rx channel 0 v Tx channel 0 v | Cross |
| Mask Ray test | Rx channel | | Tx channel 0 💌 Beam1 | A. Crawl |
| Alarm LED In 1 | Tx channel Beam1 | 0 A. Crawl | Beam12 | Sig. low |
| 1 2 3 4 Rayalarm | Beam12 | Sig. low 😝 | And-Rdm 🗾 | Bypass Random delay |
| Ray low In 3 | And-Rdm And12 | Bypass Random delay | Rx1 😝 | A. Mask |
| Ray mask | Rx1 | A. Mask | Rx2 😖 Rx3 曼 | Ray 1 test 📃 🗌 |
| Analog values Input voltage 13,0 V | Rx2 Rx3 | ⊌ Ray 1 test ■ Ray 2 test □ | Rx4 | Ray 3 test |
| Power voltage 8,2 V | Rx4 | 😝 Ray 3 test 🗌 | Sig. low 1 | Ray 4 test |
| Current 100 mA Temperature 27 *C | Sig. lo w 1 RLC | Ray 4 test | RLC 200 V | Spec. inp. |
| RX1 level 5,7 V | Speed (ms) | 200 | | Force HW config |
| RX2 level 5,7 V | | | | |
| RX3 level 5,7 V RX4 level 5,7 V | | Copy >> | | Send |

The Advanced button is dedicated to a reserved section not accessible.



Through the button Outputs can be associated the inputs and outputs shown in the figure to the relay and open collector outputs in the system Adebus.

| 🖶 Input/Output ass | ociations | | | | | | | |
|--------------------|-----------|------------------|------|--|--|--|--|--|
| CA230 Inputs | | | | | | | | |
| CA230 input 1 | 1001 | CA230 input 2 | 1002 | | | | | |
| Line status | | | | | | | | |
| Offline | 1 | | | | | | | |
| | | | | | | | | |
| Barrier status | | | | | | | | |
| Alarm | 5 | Vin Iow | 307 | | | | | |
| Tamper | 7 | Ray test | 311 | | | | | |
| Signal low | 105 | Ray 1 alarm | 401 | | | | | |
| Mask | 116 | Ray 2 alarm | 403 | | | | | |
| Heater | 205 | Ray 3 alarm | 405 | | | | | |
| Alarm LED | 208 | Ray 4 alarm | 507 | | | | | |
| Barrier inputs | | | | | | | | |
| Input 1 status 0 | 601 | Input 2 status 1 | 409 | | | | | |
| Input 1 status 1 | 609 | Input 3 | 410 | | | | | |
| Input 2 status 0 | 505 | | | | | | | |
| Ok Cancel | | | | | | | | |

NOTE: the output numbers must be indicated in the following format:

| OUTPUT N. | DESCRIPTION |
|-----------|---|
| 17 | Master Output |
| 101 116 | Exp card 1 output. |
| 201 216 | Exp card 2 output. |
| 301 316 | Exp card 3 output. |
| 401 416 | Exp card 4 output. |
| 501 516 | Exp card 5 output. |
| 601 616 | Exp card 6 output. |
| 1001 1032 | Barriers output ($1001 = barrier 1, \dots, 1032 = barrier 32$). |
| 1099 | All barriers outputs |



The Polarity button allows you to reverse states of rest of each output relay system Adebus, from NO to NC and vice versa.

| 🖶 Outputs pol | larity | | | | | | | | | | | | | | | | |
|---------------|--------|---|----|---|---|---|---|---|---|----|-----|------|----|----|----|----|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | q | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| On Board | | | | | | | | Ŭ | J | | | | 15 | | 15 | | |
| Module 1 | | | | | | | | | | | | | | | | | |
| Module 2 | | | | | | | | | | | | | | | | | |
| Module 3 | | | | | | | | | | | | | | | | | |
| Module 4 | | | | | | | | | | | | | | | | | |
| Module 5 | | | | | | | | | | | | | | | | | |
| Module 6 | | | | | | | | | | | | | | | | | |
| | ſ | | 0k | | ٦ | | | | | Γ | C a | ncel | | | | | |
| | l | | UK | | J | | | | | L | Ca | ncer | | | | | |



Archive

The Archive menu displays the history of the events recorded on the card CA230. The recording of events can be enabled or disabled via the web interface: (See "Appendix A," p.

30).

The board CA230 keeps a maximum of 20,000 events by overwriting the oldest in the event of exhaustion of the available space. For a larger number of events you need to display the database by opening the file in ManaDB.sdf workbook AdebusExplorer through an appropriate program to view this type of file.

| Archive | | | | | | |
|------------------|-------------|-------|---------|----------------|----------|--------------------------|
| DateTime | Description | Value | Barrier | Site | ^ | Filters |
| 18/04/2013 15.24 | Line status | 1 | 5 | Politec test | | From date 🗹 18/04/2013 🕑 |
| 18/04/2013 15.24 | Line status | 0 | 5 | Politec test | | To date 🗹 18/04/2013 💌 |
| 18/04/2013 15.21 | Alarm LED | 1 | 3 | Politec test | | |
| 18/04/2013 15.21 | Alarm | 1 | 3 | Politec test | | Site |
| 18/04/2013 15.21 | Line status | 1 | 3 | Politec test | | All |
| 18/04/2013 15.20 | Line status | 1 | 5 | Politec test | | Barrier |
| 18/04/2013 15.20 | Line status | 0 | 5 | Politec test | | All |
| 18/04/2013 15.20 | Line status | 1 | 5 | Politec test | | Alarm type |
| 18/04/2013 15.20 | Line status | 0 | 5 | Politec test | | |
| 18/04/2013 15.20 | Alarm LED | 1 | 5 | Politec test | | All |
| 18/04/2013 15.20 | Alarm | 1 | 5 | Politec test | | |
| 18/04/2013 15.20 | Line status | 1 | 5 | Politec test | | Export Update |
| 18/04/2013 15.19 | Line status | 0 | 5 | Politec test | | |
| 18/04/2013 15.19 | Line status | 0 | 3 | Politec test | | |
| 18/04/2013 15.19 | Line status | 0 | 5 | Politec test | | |
| 18/04/2013 15.19 | Line status | 0 | 3 | Politec test | | |
| 18/04/2013 14.57 | Line status | 0 | 5 | Politec test | | |
| 18/04/2013 14.51 | Line status | 1 | 5 | Politec test | | |
| 18/04/2013 14.51 | Line status | 0 | 5 | Politec Test 2 | | |
| 18/04/2013 14.51 | Line status | 1 | 5 | Politec Test 2 | | Close |
| 18/04/2013 14 51 | Lino status | n | F | Politon Test 2 | × | 0.036 |

| Parameter | Descriziption | Default | | | | | | |
|------------------------------------|------------------------|---------|--|--|--|--|--|--|
| DateTime | Date and time of event | | | | | | | |
| Description | Event description. | | | | | | | |
| Value | Input status | | | | | | | |
| Barrier Number of barrier related. | | | | | | | | |
| Site | Site description | | | | | | | |

The visualization of events can be filtered by date, site, type of alarm and barrier. The Update button applies the filter to the view. The Export button allows you to export events to a CSV file (comma-separated values).

N.B. Event logging is the default continues, to manage the startup controlled such registration, see "Appendix A" p. 30.



7. SYSTEM CONFIGURATION

When the configuration has been performed in the program AdebusExplorer, connect via browser to the previously statedaddress to activate the addresses barriers.

| | | | | C | A230M Barrier N | lanage |
|--|-------------------------------|----------------------|----------------------|----------------------|-----------------------------|--------|
| Overview | System config | urat | ion | | | |
| System configuration | Select the barriers connected | to this | board | | | |
| Barriers status Barriers detail Outputs configuration Outputs polarity | Barriers on COM0; | 17 | □ 10 □ 14 □ 18 | 19 | □ 8 □ 12 □ 16 □ 20 | |
| COM0 Setup COM1 Setup Network configuration | | 29 1 5 | 26 30 2 6 | 31 3 7 | 28 32 4 8 | |
| Password change | Barriers on COM1: | □ 17 □ 21 □ 25 | □14 □18 | □ 19 □ 23 □ 27 | 16 20 24 28 | |
| | | Save Conf | fig | | | |

Es. 4 barriers on COM0

After all the devices are being addressed with the program AdebusExplorer, select the corresponding addresses to devices on RS485, distinguishing those that are installed on COM0 or COM1.

Remember to save the settings with Save Config button.

8. USCITA DAL PROGRAMMA

Before you exit the program, log out and disconnect.

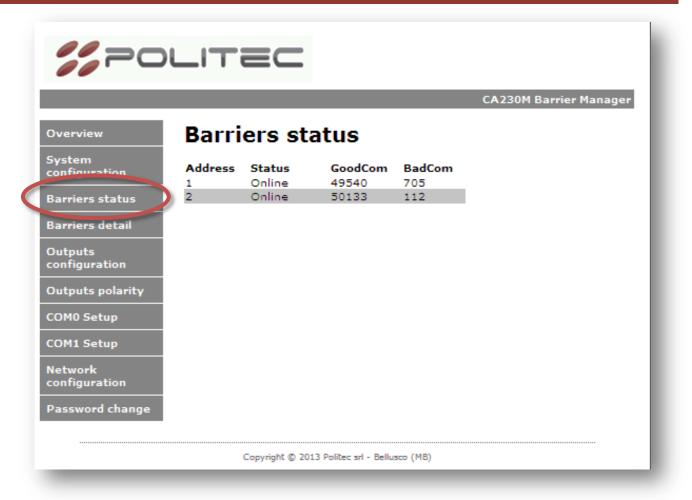
| ſ | 🛞 Adebus Ex | plorer - V2.0.1 - Standard | | | | - 0 × | N.B Do not |
|----|-------------|----------------------------|---|----------------|--|-------|----------------|
| I | File Arc | hive Utility | | | | | perform the |
| l | Worki | ing path | | | | | procedure |
| l | Site e | ditor | | Disconnect | | | could cause |
| l | Config | guration mode | | | | | malfunctioning |
| l | Langu | uage | • | | | Â | of the system |
| | Chang | ge standard user password | | | | | Adebus. |
| I | Chan | ge admin password | | | | | |
| | Logou | ut | | | | | |
| | Exit | | | | | = | |
| 11 | | | | | | - | |



Appendix A

Some of the procedures performed on the program AdebusExplorer can also run on the browser.

Barrier status



The list will show all recognized devices that have been installed and properly addressed.

| Address | Barrier address |
|---------|--------------------------------|
| Status | Online or Offline |
| GoodCom | Number of good communications |
| BadCom | Number of wrong communications |



Barrier detail

| | | | | | | | CA230M Barrier Man |
|-------------------|----------|------------------|---------|-------|------------|------|--------------------|
| Overview | Bar | rie | det | ail | | | |
| System | Barrier: | | Barrier | - | | | |
| configuration | Descri | ption | Value | | | | |
| Barriers status | Serial | - and the second | 000727 | | | | |
| Barriers detail | Alarm | | • | | | | |
| | Tampe | r 🗧 | • | | | | |
| Outputs | Signal | low | • | | | | |
| configuration | Mask | | • | | | | |
| Outputs polarity | Heater | | • | | | | |
| COMO Setup | Alarm L | ED | • | | | | |
| como occup | Vin out | range | • | | | | |
| COM1 Setup | Vin low | (1999) (1999) | • | | | | |
| Network | Power | low | | | | | |
| configuration | Ray te | st | | | | | |
| Password change | Rele' | | | | | | |
| russiloru analigu | i la la | | 020 | Alarm | Signal low | Mask | |
| | | | Ray 1 | • | e | o | |
| | - | | Ray 2 | | | | |
| | Rays | | | | | | |
| | | | Ray 3 | | • | | |
| | | | Ray 4 | • | • | • | |
| | Vin | 13.2 | v | | | | |
| | Vcc | 8.3 | v | | | | |
| | Amp | 101.0 | | | | | |
| | Temp | 29.0 | °⊂ | | | | |
| | Rx1 | 5.6 | v | | | | |
| | Rx2 | 5.6 | v | | | | |
| | Rx3 | 5.6 | v | | | | |
| | Rx4 | 5.6 | v | | | | |

Through this section you can check the details of the status of each barrier. In particular, in addition to the serial number (SERIAL) will highlight the main states of the single barrier and its optics.

| Alarm | Alarm |
|---------------|---|
| Tamper | Tamper status |
| Signal low | Disqualification status |
| Mask | Antimask status |
| Heater | Heaters status |
| Alarm LED | LED ALARM on Mother board |
| Vin out range | Supply out of range (not 10-30Vdc) |
| Vin low | Low supply (lower than 12.4V, in this case the supply is done by battery) |
| Power low | Low stabilized tension in the barrier (<8V). |
| Ray Test | Indicatesi f the barrier is in alignment test |
| Relè | Alarm relay status. The function can be modified with RLC command |
| Rays | Each optical RX status |
| Vin | Supply voltage IN |
| Vcc | Tension present on barrier |
| Amp | Power consumption from single barrier |
| Temp | Temperature |
| Rx1 Rx2 Rx3 | Voltage PEAK value of the signal being received (does not match the value |
| Rx4 | measured by the multimeter on a single optical RX) |



Output configuration

| <i>%</i> 20 | | | |
|--------------------------|-----------|---|---------------------------------|
| | | | CA230M Barrier Manager |
| Overview | Out | put configuratio | n |
| System configuration | Configure | e the association between inputs a | and outputs |
| Barriers status | 1 | Master input 1 enable storage | |
| Barrissia | 1 | Master input 1: | 0 |
| | 1 | Master input 2: | 1001 |
| Outputs configuration | | Barrier: Offline: | Barrier 1 |
| Outputs polarity | | Jrnine: Marm: | 107 |
| COM0 Setup | | lamper: | 0 |
| COMU Secup | | low signal: | 0 |
| COM1 Setup | | Mask: | 0 |
| Network | 1 | feater: | 0 |
| configuration | A | Marm LED: | 108 |
| Password change | 1 | /in low: | 0 |
| | F | Ray test: | 0 |
| | F | Ray 1 alarm: | 101 |
| | F | Ray 2 alarm: | 102 |
| | F | Ray 3 alarm: | 103 |
| | | Ray 4 alarm: | 104 |
| | 1 | input 1 = 0: | 0 |
| | | input 1 = 1: | 0 |
| | | input 2 = 0: | 0 |
| | | input 2 = 1: | 0 |
| | 1 | input 3 | P |
| | | Save Config | |
| | NOTE: T | he output numbers should be choo | sed using the following schema: |
| | • 10 | 7 Master outputs 1116 Output expansion board 1 | |
| | • 20 | 1216 Output expansion board 2 | |
| | • 60 | 1616 Output expansion board 6 011032 Barrier outputs | |
| | | 99 All barrier outputs | |
| | | | |
| | | Copyright © 2013 Politee arl - Belluace | = (HS) |
| | | | |

In the menu option configuration Master Outputs 1 Input enabled storage, if selected, activates the recording only if the input 1 of the card CA230 is balanced closed (1 k). In the event that the Master option input 1 enabled storage is not checked, the events are stored continuously.

Master Input 1 o 2: You can combine any of these inputs to the relay card CA230.

Barrier: The events below are from that device / barrier.

For each of them can be combined with a relay.

Save the settings for each barrier with the Save Config button.



Output polarity

| | | | | | | | | | | | CA2 | 30M | Bar | rier | Manag |
|--------------------------|----------------------|-------------|--------|------|------|------|------|---------|-------|----|-----|-----|-----|------|-------|
| Overview | Outpu | it p | oola | ari | ty | | | | | | | | | | |
| System configuration | Select the o | - Itputs | that s | houl | d be | with | posi | itive s | ecuri | ty | | | | | |
| Barriers status | | 1 | 23 | 4 | 5 | 6 | 7 | 89 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Barriers detail | On board Module 1 | | | | | | | | | | | | | | |
| Outputs | Module 1 Module 2 | | | | | | | | | | | | | | |
| Configuration | Module 3 | | | | | | | | | | | | | | |
| Outputs polarity | Module 4 | | | | | | | | | | | | | | |
| COM0 Setup | Module 5 Module 6 | | | | | | | | | | | | | | |
| COM1 Setup | | | | Save | Conf | ig | | | | | | | | | |
| Network configuration | | | | | | | | | | | | | | | |
| Password change | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | |

For each relay can reverse the function. When you check the corresponding relay is activated in conditions of non-event. Save with Save Config.



COM0 o COM1

| | CA230M Barrier M | anag |
|--------------------------------|----------------------------------|------|
| Overview | COM0 Configuration | |
| System configuration | Enter the new settings for COM0: | |
| Barriers status | Speed (baud): 9600 💌 | |
| Barriers detail | Data bit: 8 💌 | |
| Outputs | Parity: None Stop bits: 1 | |
| configuration | Save Config | |
| Outputs polarity COMO Setup | | |
| | | |
| COM1 Setup | F | |
| Network configuration | | |
| Password change | | |
| | | |

Are parameters of operation of the serial. Do not change for no reason, otherwise it will affect the operation



APPENDIX B

The following are the details of the states and settings of individual barriers exist for the configuration inside the AdebusExplorer.

Status

| ALARM | Alarm status of the barrier | | | |
|-----------------|---|--|--|--|
| TAMPER | Tamper status of the column | | | |
| SIGNAL LOW | Disqualification status | | | |
| MASK | Antimask status | | | |
| HEATHER | Heaters status | | | |
| ALARM LED | LED ALARM on Mother board | | | |
| VIN OUT RANGE | Supply out of range (not 10-30Vdc) | | | |
| VIN LOW | Low supply (lower than 12.4V, in this case the supply is done by battery) | | | |
| POWER LOW | Low stabilized tension in the barrier (<8V). | | | |
| BEAM TEST | Indicatesi f the barrier is in alignment test | | | |
| RELÈ | Alarm relay status. The function can be modified with RLC command | | | |
| IN 1 | Status of the Special Input 1 (Input terminal of BEAMS MES9C on the base of a single column). It is a balanced input to $15k\Omega$. In case of normal operation, its value is equal to 2. When opened, its value is equal to 0. If be balanced $30k\Omega$ its value is 1. For more details, please refer to the manual of the barrier MANA IR | | | |
| IN 2 | Status of the Special Input 2 (Input AND MES9C the terminal block on the base of single column). It is a balanced input to $15k\Omega$. In case of normal operation, its value is equal to 2. When opened, its value is equal to 0. If be balanced $30k\Omega$ its value is 1. For more details, please refer to the manual of the barrier MANA IR | | | |
| IN 3 | Status of the Special Input 3 (Input terminal of G MES9C based on the single column). It is normally open, and its value is equal to 0. If the event is shorted to ground, and its value is 1. For more details, please refer to the manual of the barrier MANA IR | | | |
| BEAM ALARM | Alarm beam status | | | |
| BEAM LOW | Beams in disqualification status | | | |
| BEAM MASK | Beams masked | | | |



Analog values

| INPUT VOLTAGE | Voltage input on the column |
|-----------------------------|--|
| POWER VOLTAGE | Stabilized voltage into the column |
| CURRENT | Power consumption of the column |
| TEMPERATURE | Temperature |
| RX1, RX2, RX3, RX4 LEVEL | Voltage PEAK value of the signal being received (does not match the value measured by the multimeter on a single optical RX) |

Configuration

| MODEL | Model of products | | | | |
|-----------------------|--|--|--|--|--|
| SERIAL NO | Serial number of the mother board | | | | |
| SOFT. CONFIG | If activated, the configuration of the column is controlled by software. It therefore takes precedence over the hardware configuration set via dip switches on the motherboard of the column | | | | |
| RX CHANNELL | Not used | | | | |
| TX CHANNELL | Not used | | | | |
| BEAM1 | Esclusion beam 1 | | | | |
| BEAM12 | Esclusion beam 1 & 2 | | | | |
| AND RND | Function AND (2 optical must be interrupted to give alarm) | | | | |
| AND12 | AND function for the beam 1 & 2 | | | | |
| RX1, RX2, RX3, RX4 | Single optical status | | | | |
| SIGN LOW1 | The barrier enters in disqualification with at least one of the optical RX that receives a low signal in case of fog. If it is only the first optical signal to detect a low, but not enough for the alarm, this is inhibited only by maintaining the normal operation of the barrier | | | | |
| RLC | Allows you to configure the alarm relay in this column so that it is closed (or open) as a function of an event at your own discretion | | | | |
| CROSS | Crossing function is enabled for the barrier which works with crossed beams. For details, see the manual of the barrier MANA | | | | |
| A.CRAWL | Anti crawling function is enabled for which only the first optical RX works with a trip time equal to 2 seconds. It has priority over other functions such as AND or and12 RND. In particular, the system still has to be in alarm regardless of the state of the other optical receivers | | | | |
| OPT./WIRE | Not used | | | | |
| SIGN LOW | Disqualification | | | | |
| BYPASS | Inhibition of the barrier for 1 minute | | | | |
| RANDOM | The system presents time to time a random delay alarm variable from 0,05 to | | | | |
| DELAY | 1 sec | | | | |
| ANTIMASK | Allows to be advise if there is an attempt to blind the barrier | | | | |



| RAY TEST 1, 2, 3, 4 | It allows you to activate optics transmitter at a time. This function can be used for verification of alignment on a single optical receiver |
|------------------------|---|
| SPEC. INP | Allows use of special inputs on the terminal board of the barrier MES9C. In particular, it is possible for example to insert a sensor attached on the Special Input 1 (input terminal of the BEAM), one of the Special Input 2 (input) and one on the Special Input 3 (Input Gin). For more details, see the manual of the barrier MANA |
| SPEED | Is the delay time in milliseconds of the barrier. By default it is set to 50ms |



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