



I/O DIGITAL INTERFACE - 8 RELAYS OUTPUT RS485 MODBUS Slave

QA-8DO



I/O Digital Modbus Slave Interface, USB configurable, DIN rail mounting, 3-way galvanically isolated, universal power supply AC/DC, n° 8 DIGITAL OUTPUT RELAYS.



<b>POWER SUPPLY</b>	10..40 Vdc, 20-28 Vac, 50-60 Hz
<b>OUTPUT</b>	n°8 relays output SPDT 5 A / 250 VAC, n°1 RS485 Modbus Slave
<b>ABSORPTION</b>	Maximum 2,5 VA
<b>PROTECTION INDEX</b>	IP 20
<b>WORKING TEMPERATURE</b>	-15...+65°C
<b>STORAGE TEMPERATURE</b>	-40°C... +85°C
<b>ISOLATION</b>	3 way: serial output RS485,USB port and Power supply, are galvanically isolated at 1,5 kV. Relays output are isolated at 4 kV.
<b>HUMIDITY</b>	10...90% not condensing
<b>ALTITUDE</b>	Up to 2000 m s.l.m.
<b>MOUNTING</b>	DIN rail mounting with removable terminals, RS485 bus and Supply connection ready on the base of module (connector not included, on request)
<b>CONNECTIONS</b>	Removable terminals 5,08 mm
<b>CE STANDARDS</b>	EN61000-6-4/2006 + A1 2011; EN64000-6-2/2005; EN61010-1/2010
<b>DIMENSIONS</b>	17,5 x 100 x 112 mm (terminals excluded)
<b>CONFIGURATION</b>	By free software FACILE QA-8DO to configure all of the conversion parameters. Dip-switch for setting modbus address and baudrate.
<b>HOT SWAPPING</b>	The module QA-8DO has HOT SWAPPING technology, this enables the module to be inserted and removed from the system without the need to restart the device Modbus Master connected to it

QA-8DO

I/O DIGITAL INTERFACE - 8 RELAYS OUTPUT RS485 MODBUS Slave

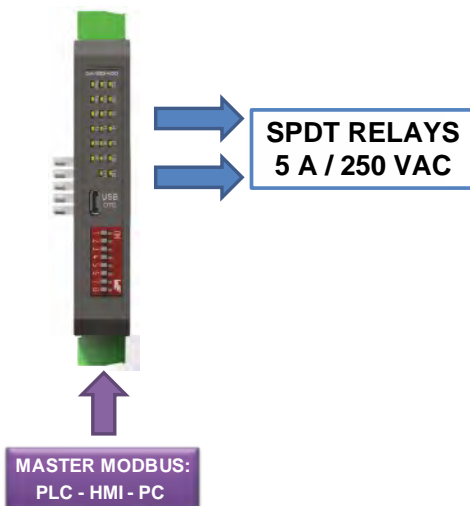
DIGITAL AND SERIAL OUTPUT:

DIGITAL OUTPUT: n°8 relays SPDT 5A / 250 VAC.

SERIAL OUTPUT:

- RS485 Modbus Slave;
- Bus connection on the base of module by adapter (option) or on terminals. Dip-switch for setting address and baudrate.

N°8 RELAYS OUTPUT:



3-WAY GALVANIC ISOLATION





**INSTRUCTION MANUAL** **QA-8DO**

**DESCRIPTION:**

The QA-8DO is a slave module with n°8 relays output. Thanks to the presence of the RS485 serial port can perform advanced functions such as I/O module with Modbus RTU protocol.

QA-8DO  
INSTRUCTION MANUAL

ELECTRICAL CONNECTIONS											
16 ⓪ AC MAX 2,5 VA 10-40 Vdc 17 ⓪ AC 20-28 Vac	<b>POWER SUPPLY:</b> 10...40 Vdc or 20...28 Vac - Connectors 16 and 17, or by T-BUS connector (optional tool) on the base of the module.										
<table border="1"> <tr> <td>1 ⓪ NC</td> <td>RELAY MAX 250Vac MAX 5A</td> <td>NO ⓪ 18</td> </tr> <tr> <td>2 ⓪ COM</td> <td></td> <td>COM ⓪ 19</td> </tr> <tr> <td>3 ⓪ NO</td> <td>RL4 - O4</td> <td>RL8 - O8</td> </tr> </table>	1 ⓪ NC	RELAY MAX 250Vac MAX 5A	NO ⓪ 18	2 ⓪ COM		COM ⓪ 19	3 ⓪ NO	RL4 - O4	RL8 - O8	<b>DIGITAL OUTPUT:</b> n°8 relays SPDT 5 A / 250 Vac. RL1 - O1: digital output n°1. RL2 - O2: digital output n°2. RL3 - O3: digital output n°3. RL4 - O4: digital output n°4. RL5 - O5: digital output n°5. RL6 - O6: digital output n°6. RL7 - O7: digital output n°7. RL8 - O8: digital output n°8.	
1 ⓪ NC	RELAY MAX 250Vac MAX 5A	NO ⓪ 18									
2 ⓪ COM		COM ⓪ 19									
3 ⓪ NO	RL4 - O4	RL8 - O8									
<table border="1"> <tr> <td>4 ⓪ NC</td> <td>RELAY MAX 250Vac MAX 5A</td> <td>NO ⓪ 21</td> </tr> <tr> <td>5 ⓪ COM</td> <td></td> <td>COM ⓪ 22</td> </tr> <tr> <td>6 ⓪ NO</td> <td>RL3 - O3</td> <td>RL7 - O7</td> </tr> </table>	4 ⓪ NC	RELAY MAX 250Vac MAX 5A	NO ⓪ 21	5 ⓪ COM		COM ⓪ 22	6 ⓪ NO	RL3 - O3	RL7 - O7		
4 ⓪ NC	RELAY MAX 250Vac MAX 5A	NO ⓪ 21									
5 ⓪ COM		COM ⓪ 22									
6 ⓪ NO	RL3 - O3	RL7 - O7									
<table border="1"> <tr> <td>7 ⓪ NC</td> <td>RELAY MAX 250Vac MAX 5A</td> <td>NO ⓪ 24</td> </tr> <tr> <td>8 ⓪ COM</td> <td></td> <td>COM ⓪ 25</td> </tr> <tr> <td>9 ⓪ NO</td> <td>RL2 - O2</td> <td>RL6 - O6</td> </tr> </table>	7 ⓪ NC	RELAY MAX 250Vac MAX 5A	NO ⓪ 24	8 ⓪ COM		COM ⓪ 25	9 ⓪ NO	RL2 - O2	RL6 - O6		
7 ⓪ NC	RELAY MAX 250Vac MAX 5A	NO ⓪ 24									
8 ⓪ COM		COM ⓪ 25									
9 ⓪ NO	RL2 - O2	RL6 - O6									
<table border="1"> <tr> <td>10 ⓪ NC</td> <td>RELAY MAX 250Vac MAX 5A</td> <td>NO ⓪ 27</td> </tr> <tr> <td>11 ⓪ COM</td> <td></td> <td>COM ⓪ 28</td> </tr> <tr> <td>12 ⓪ NO</td> <td>RL1 - O1</td> <td>RL5 - O5</td> </tr> </table>	10 ⓪ NC	RELAY MAX 250Vac MAX 5A	NO ⓪ 27	11 ⓪ COM		COM ⓪ 28	12 ⓪ NO	RL1 - O1	RL5 - O5		
10 ⓪ NC	RELAY MAX 250Vac MAX 5A	NO ⓪ 27									
11 ⓪ COM		COM ⓪ 28									
12 ⓪ NO	RL1 - O1	RL5 - O5									
ModBus GND ⓪ 32 RTU B- ⓪ 33 A+ ⓪ 34	<b>SERIAL OUTPUT RS485:</b> available on connectors 32 (GND), 33 (B-), 34 (A+), or by T-BUS connector to be mounted on the module.										
<table border="1"> <tr> <td>AC</td> <td>AC</td> <td>GND</td> <td>B-</td> <td>A+</td> </tr> <tr> <td>⓪</td> <td>⓪</td> <td>⓪</td> <td>⓪</td> <td>⓪</td> </tr> </table>	AC	AC	GND	B-	A+	⓪	⓪	⓪	⓪	⓪	<b>T-BUS CONNECTION (OPTION)</b> , needs T-BUS connector: it may be affixed to the accessory T-BUS based on the module to bring both power and serial communication. The number of modules supported by the bus is a function of the power supply used (check the absorption of the modules).
AC	AC	GND	B-	A+							
⓪	⓪	⓪	⓪	⓪							

