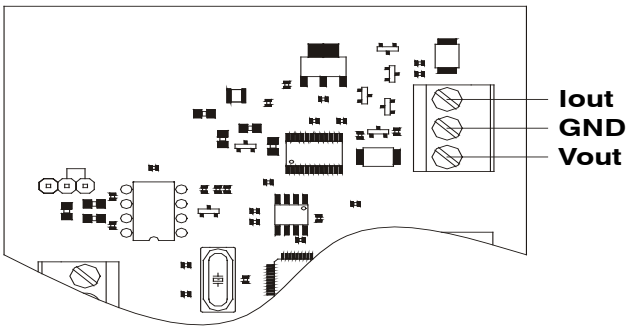
5. OPERATION

Accessory is powered on once connected to the power supply.
See connection system in section 7.

6. LED INFORMATION

Power supply ► Green led
COM/ Error ► Orang led

7. OUTPUT CONNECTIONS



ACC. 89407

ANALOG OUTPUT MODULE MATRIX II

OPERATION MANUAL

8. TECHNICAL DATA:

• Power supply
12-28 V DC
Nominal voltage: 24 VDC
Nominal consumption: 2,5 W
Maximum consumption: 3 Wmax

• Environmental conditions
Temperature range: -25ºC / +50ºC
Temperature limits: -25ºC / +70ºC
• Mechanical characteristics:
Size: 91x82x50 mm
Weight: 0.1 kg
Assembled on a 35mm DIN rail
• Analog output characteristics
Current output: 0 – 20mA / 4 – 20mA
(RL_{max} = 10 kΩ)
Voltage output: 0 – 5V / 0 – 10V
(RL_{min} = 2 kΩ)

Rev. 2 (07/15)

1. SAFETY INSTRUCTIONS

WARNING-SHOCK HAZARD

This device should be installed or handled only by qualified personnel. Unplug the device from the power outlet before handling.

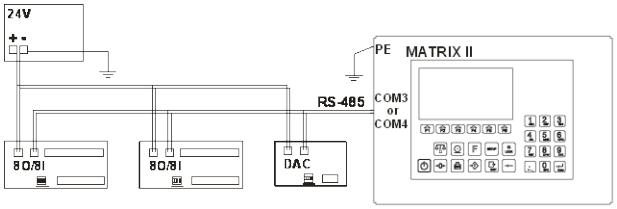
CAUTION

The integrated circuits of ACC. 89407 are sensitive to electrostatic discharge (ESD). Follow proper procedures for transporting, storing and handling.

2. CHARACTERISTICS

Connection among the modules and the indicator is made through a RS-485 channel. We may use both COM3, available in all the equipments, or COM4, if we have installed the RS-485 output optional board. The board is galvanic isolated to improve protection in industrial environments. Modules should be powered at 24 VDC.

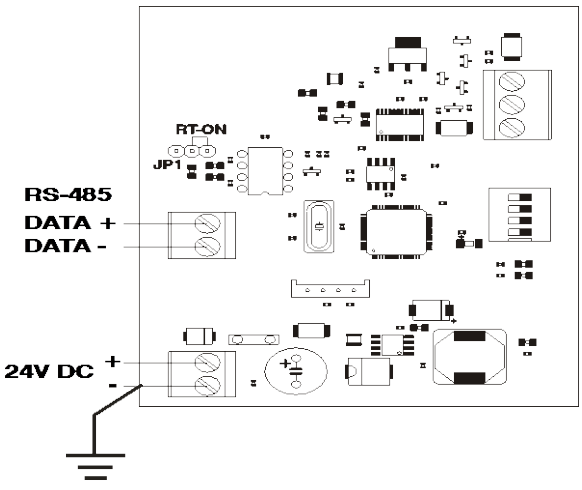
Example of connection of two digital modules and one analog output module to a MATRIX II:



RS-485 communication bus is made with a couple of wires that connect in parallel all the modules to the MATRIX II. To distinguish each module in the bus they have one direction –different for every module- which is configured through 4 DIP format switches. The possible values are from 1 to 15 (zero is reserved).

3. CONNECTIONS

For the accessory functioning is necessary to connect the power supply and the RS-485 connection to the MATRIX II as showed in the figure below:



To activate the RS-485 bus terminator, place the jumper in the position RT-ON.

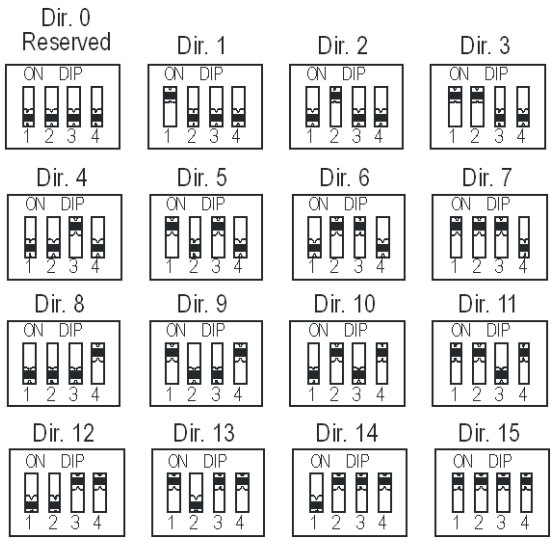
CAUTION

When using a serial interface RS-485 without galvanic isolation, the negative 24VDC power supply terminal and mass (PE) of MATRIX II must be bonded together.

4. EXTERNAL MODULES NUMBERING

External modules have four DIP switches to configure its direction. This may be from 1 to 15, being necessary that every module's value to be different. If a direction is changed while being in functioning, the change will not take effect until the module is unplugged and plugged again to the power supply.

The following figure shows the correspondence among the switches' position and the direction:



Do not use direction 0