grup ARGE

8 Input Module Datasheet

1.1. General Features

Developed to enable the status of 8 dry contact inputs to be monitored remotely via Standard Modbus RTU.

It can be monitored remotely with SmartPower terminals or integrated into other systems. One end of the dry contact to be monitored is connected to the COM terminal and the other end is connected to any of the inputs I1-I8. In case of open contact, the related LED is off, while in case of closed contact, the related LED is on. The device can be mounted on the rail inside the panel.

1.2. Technical Features

- Microprocessor based.
- OM C8D operates with 10-30 V DC supply.
- OM C8A operates with 85-265 V AC supply.
- Supports RS-485 Standard Modbus RTU protocol.
- There are 8 dry contact inputs.
- It has POWER, ERROR, RS-485 (Communication) LEDs...
- Operating ambient temperature of the device is between -10 °C and +55 °C
- Supply consumption power is less than 1 VA.
- It has IP40 protection class.

1.3. Technical Drawing
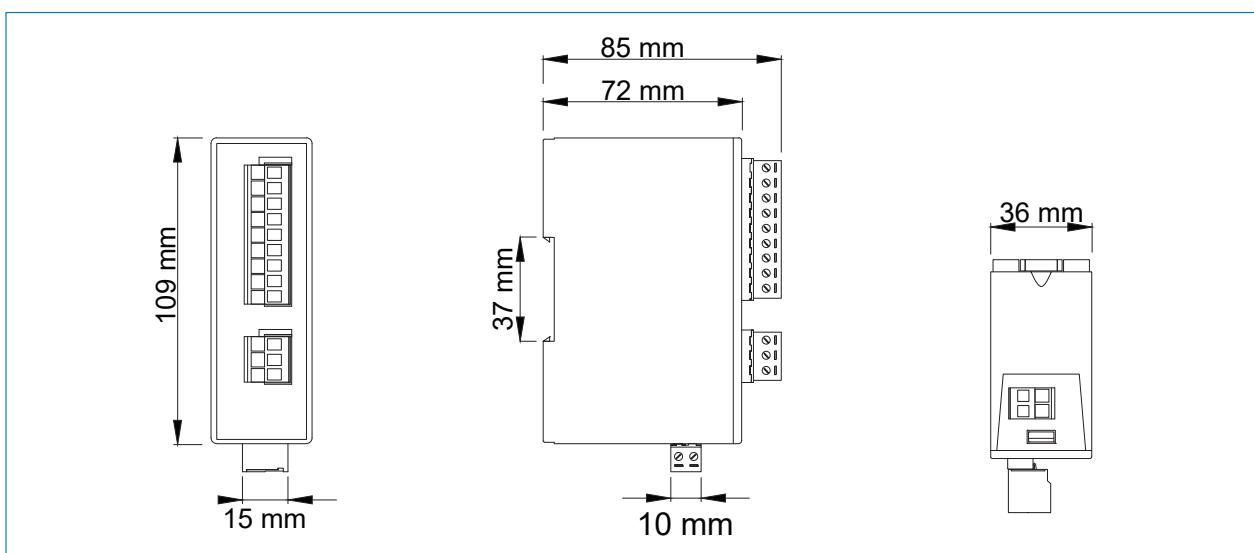
1.4. Connection Diagram

Input Module AC
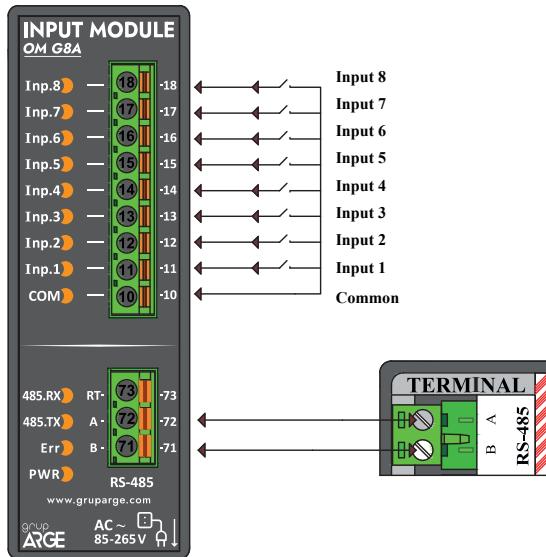
RT Terminal Block: It is used for optional activation of 120 a terminating resistor.

The terminating resistor is connected between RT and A terminals.
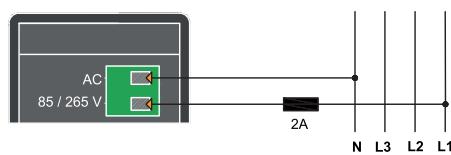
Intput Module DC
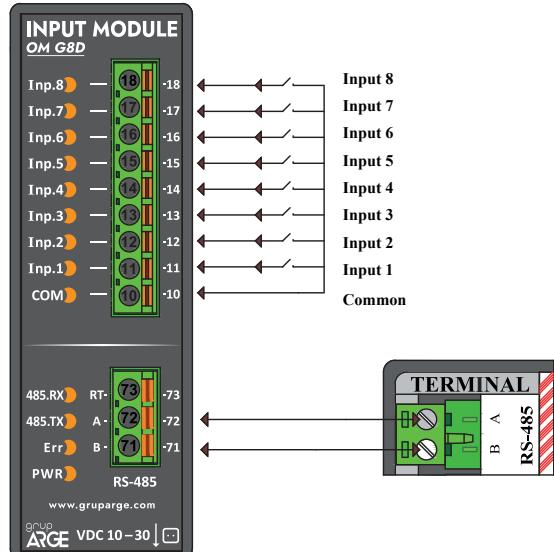
RT Terminal Block: It is used for optional activation of 120 a terminating resistor.

The terminating resistor is connected between RT and A terminals.
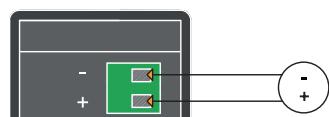
It is recommended to select the cable for RS-485 communications according to the table below.

Cable Distance	Recommended Cable	Alternative Recommendation
Up to 30 m	3*0,22 Shielded and Twisted Signal Cable	CAT-5 Ethernet Cable
Over 30 m	3*0,50 Shielded and Twisted Signal Cable	CAT-6 Ethernet Cable

2. MODBUS MAP

2.1. Communication Parameters

Baudrate	9600 bps
Data Bits	8
Parity	None
Stop Bits	1

NOTE: The default Modbus address is the number obtained by adding 100 to the last two digits of the serial number of the device. For example, suppose the serial number is 185247. Since it ends with 47, Modbus address becomes 147.

2.2. Modbus Speed

Modbus speed is determined by indexes between 0-4. The table below contains Modbus speeds according to the indexes. By adjusting the Bus Speed part of the Modbus map, the desired speed can be obtained from the table below.

Index	0	1	2	3	4
Modbus Speed (Bps)	1200	2400	4800	9600	19200