Configuration via Jumpers

The motherboard of the system includes a set of configuration jumpers that allow the user to adjust various operational parameters. These jumpers are of two types:
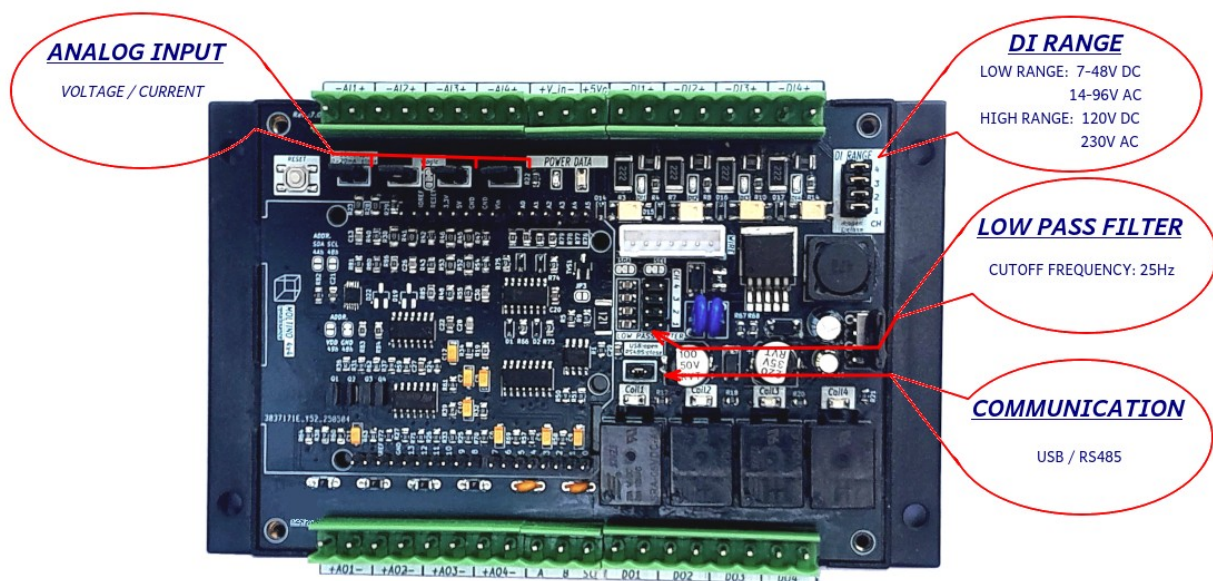
- Removable jumpers: used to change the functional modes of the system.
- Solder jumpers: used to adjust hardware-level settings that adapt the motherboard to the specific characteristics of the processor board in use.

Removable Jumpers

- Select the type of analog input signal: voltage or current.
- Adjust the sensitivity range for digital inputs.
- Enable or disable the low-pass filter for digital inputs.
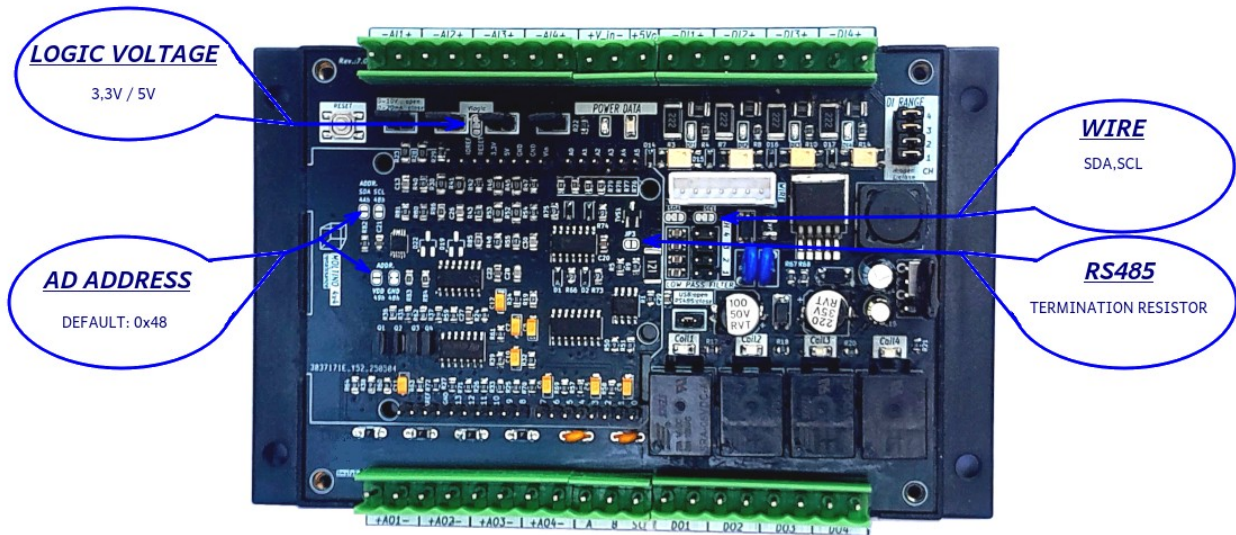- Select the wired communication mode: USB or RS485.

Solder Jumpers

- Select the logic voltage of the motherboard: 5 V or 3.3 V.
- Set the I²C address of the analog-to-digital converter.
- Adjust the SDA/SCL line mapping according to the Arduino board in use.
- Insert or omit the termination resistor (120 Ω) on the RS485 line.

Removable jumpers

Solder jumpers