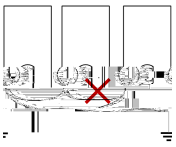
Expansion interface



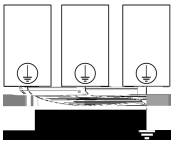


Figure 2-4 shows the wiring requirements for terminals. indicates the notice when wiring:

It is recommended to use a shielded twisted-pair cable, keeping far away from the power line;

Do not occur short-circuit between voltage terminals and current terminals in any mode.

The power supply can use the auxiliary output DC24V power supply of the main module, and can also use other power supplies.

The ground terminal is well connected;

Do not use the empty pin of terminal.

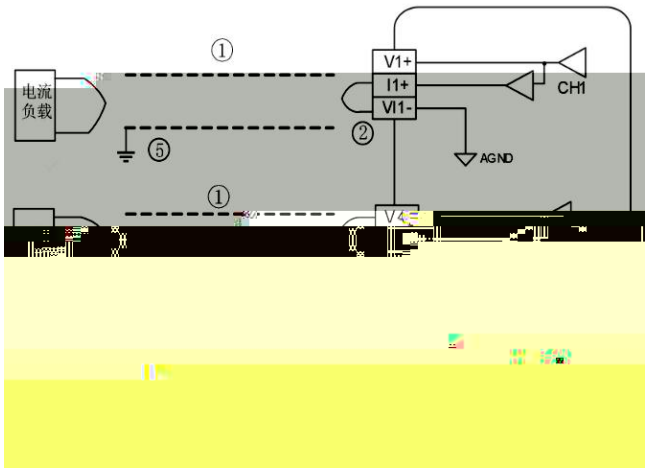


Fig 2-4 MU200-4DA terminal wiring diagram

It is necessary to calculate the sum of the current consumed by all power supplies of expansion modules before the connection operation to ensure that the current of all power supplies is less than the output current provided by the corresponding power supply of the main module.

3. Technical Specification

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Environment temperature range of PLC: -5 55 . When the temperature exceeds 55°C for a long time, a well-ventilated place should be selected.

Place without corrosion, flammable and explosive gas and liquid.

Solid place without vibration.

This controller is designed for II standard installation environment and 2-level pollution occasions.

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Table 3-1 Performance specification

Item		Technical specification
Number of Analog quantity output		4 points
Range of Analog quantity output		Voltage -10 +10V Current 0 20mA 0 10V 4 20mA (0 ~ 10V and 0 ~ 20mA are synchronous) Scale is switched by upper machine
Resolution	Voltage	5mV
	Current	10uA
Conversion speed		2ms/ channel
Conversion precision		±1% full scale
Load impedance	Voltage	1KΩ(Min.)
	Current	500Ω(Max.)
Isolation		The analog circuit and digital circuit are separated with a photoelectric coupler and the analog channels are not separated with each other.
Analog power		DC24V (-15% ~ 20%), allowed ripple voltage 5 % (Max.) 50mA (come from the basic module or external power supply)
24V power consumption (Bus)		20mA

4. Terminal

Table 4-1 shows the terminal layout of the MU200-4DA, as shown in the following:

n. №

5. Characteristic and Function

Table 5-1 Panel indicator and function

Item	Function
PWR indicator	Connection status between expansion module and main module ON connection succeed OFF connection fail
RUN indicator	Mainly for fault of expansion module Fast flash(10Hz): operation in normal Slow flash(1Hz): module fault and operation error
ERR alarm indicator	Mainly for the application layer Normal: OFF Faulty ON (parameter configuration error, out of limit) Flash (communication error with main module)

This module supports voltage (non-differential) and current output modes, of which the default digital quantity ranges -10000 to +10000 m respectively. Users can set the digital quantity range to other numbers by using this function. For the calculation method, see Formula 5-1.

$$D = \frac{S_U - S_L}{U_U - U_L} \times (U_O - U_L) + S_L \qquad (5-1)$$

Among that D = Output digital value corresponding to voltage or current

U_O = Actual output voltage or current value

U_U = Upper range

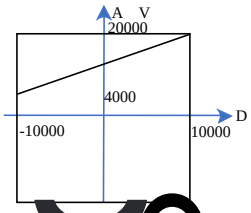
U_L = Lower range

S_U = Upper calibration

S_L = Lower calibration

Table 5-2 Upper/lower limit of range in different mode

Mode	±10	0-10V	0-20mA	4-20mA
U_U	10V	10V	20mA	20mA
U_L	-10V	0	0mA	4mA



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[illegible] th[illegible] [illegible] sh[illegible] [illegible] informa[illegible]n.

Table 6-2 Version information

Register name	Description
[illegible]	BIT0~3: MCU software version
[illegible]	BIT4~7: FPGA software version
[illegible]	BIT12~13: Reserved
16Bit	0 : Common module 1 : Custom module
[illegible]	[illegible]

2. Set the error status mapping register. Table 6-3 shows the error [illegible]

Register name	Description
Module error status	Error when each bit is 1, normal when it is 0: BIT0: Module error and RUN
[illegible]	[illegible]
[illegible]	BIT11: Output over-limit

3. Set the configuration error mapping register, which stores the ID of the wrong parameter when the parameter is incorrectly configured. D

Notice

1. The warranty range is confined to the PLC only.

2. Warranty period is 18 months, within which period Megmeet conducts free maintenance and repairing to the PLC that has any fault or damage under the normal operation conditions.

3. The start time of warranty period is the delivery date of the product, of which the product SN is the sole basis of judgment. PLC without a product SN shall be regarded as out of warranty.

4. Even within 18 months, maintenance will also be charged in the following situations:

Damages incurred to the PLC due to mis-operations, which are not in compliance with the User Manual;

Damages incurred to the PLC due to fire, flood, abnormal voltage, etc;

Damages incurred to the PLC due to the improper use of PLC functions.

Remove the PLC personally.

5. The service fee will be charged according to the actual costs. If there is any contract, the contract prevails.

6. If you have any question, please contact the distributor or our company directly.

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