



	Power Supply Prod	luct								
	□ Communication PS□ Display Power Supply□ OA Power Supply	☐ Server Power Supply ☐ Photovoltaic (PV) ☐ Flat Panel Power Supp	☐ Energy Storage System		/ ☐ Industrial Microwave Power Supply ent☐ Guide Rail Power Supply					
	Industrial Automat	tion								
	☐ Inverter☐ Industrial IOT	☐ Servo System☐ Elevator Integrated Co	Control System	☐ Sensor ☐ Engineering Vehicle (☐ Internal Gear Pump Controller					
	New Energy Vehicl	e & Rail Transit								
	Rail Transit Inverter	■ Motor Controller	☐ PFC	☐ Electric Compressor	☐ Heating Managment System					
	Rail Transit Air Condition	oning Controller	☐ In-vehicle Integrated	Charging System	☐ All-in-one High Voltage Integrated Driver					
	Intelligent equipme	ent								
☐ Intelligent Digital Welding Machine			☐ Industrial Microwave Equipment		☐ Intelligent Submersible Screw Pum Oil Recovery System					
	Smart Appliance E	lectronic Control								
	☐ Intelligent Sanitary War	e Space Heating	☐ Microwave Oven	☐ Electromagnetic Heati	ng Cold Chain					
	☐ Heating Ventilation Air	r Conditioner (HVAC)	☐ Washing (Drying) Mad	chine						
	Precision Connecti	on								
	☐ Flexible Flat Cable(FFC) FPC	☐ Coaxial Line	Varnished Wire						
	Shenzhen Megm	eet Electrical Co.,	Ltd							
	Add: 5th Floor, Block B, Unisplendour Information Harbor, Langshan Rd., Science&Technology Park, Nanshan District, Shenzhen, 518057, China									
		ch Zone Union Tower, No Shenzhen, 518057, China								



MU200 Series Programmable Logic Controller

——A New Generation of High Performance Small PLC



2800+

7800+

10

8

R&D Personnels

Employees

R&D Centers

Manufacturing Bases



About MEGMEET

Shenzhen Megmeet Electrical Co., Ltd.(Stock Code:002851) is a one-stop solution provider for the R&D, production, sales and services of hardware and software in electrical automation field, highlighting in power electronics and automatic control technology. Company's main business covers six parts: power supply products, industrial automation, new energy vehicle& rail transit, intelligent equipment, smart appliance electronic control and precision connection.

Our company has established a strong platform of R&D, manufacturing, marketing and service with more than 2800 R&D personnel and a total of more than 7800 employees. We have established R&D centers in Shenzhen City, Changsha City, Xi'an City, Wuhan City, Zhuzhou City, Hangzhou City, Taizhou City and Chengdu City; overseas research institutes in the United States, Germany, and Sweden; manufacturing centers in Zhuzhou City, Dongguan City, Heyuan City, Taizhou City, and Yiwu City; overseas factories in Thailand and India; overseas marketing station in the United States, Japan, Korea, Southeast Asia, India, Germany, Poland, Romania, Turkey, Sweden to provide quality service resources.

MEGMEET is committed to helping people achieve a more efficient use of electricity, creating a cleaner living environment, continuously improving production efficiency and creating a better life for human beings. Our company aspires to become a global first-class product and solution provider in the field of electrical control and energy saving.

Contents

CONTENT

Four Major Product Features	P01
Introduction of CPU Module Port	P07
Industrial Application and Solution	P08
Model of MU200 Series PLC	- P09
Dimensions Specification	P16



Excellent performance Widespread application



Excellent performance

The design of ARM +FPGA dual-core processor provides the faster arithmetic speed, more precise motion control and more stable process control.



Multi-mode Control

Supporting up to 12 channels 200K high-speed pulse output and 8 channels high-speed count, linear interpolation and electronic gear function.

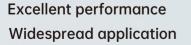


Widespread application

Since its release, MU200 has been used in 3C industry, packaging industry, hydraulic industry and other industries.









Multiple Communication
Convenient Networking



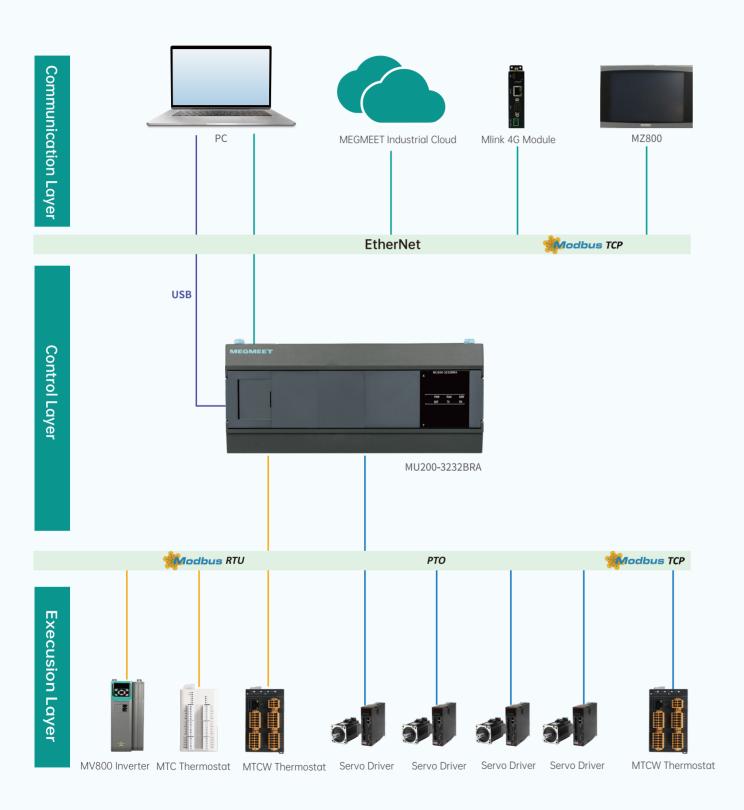
Flexible expansion
Stable & reliable



Simplified programming Upgrading of function

PO1 MU200 Series Small PLC P02

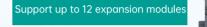
Multiple Communication Convenient Networking



Flexible expansion Stable & reliable

- Flexible expansion: Support up to 12 expansion modules and 2 expansion cards to expand small-point IO and communication conveniently.
- **Stable & reliable:** With the horizontal expansion design, the expansion modules are connected by pins, which stabilize the connection and facilitate the disassembly.











MU200-0016ETN

MU200-3232BTA

MU200-8AD

MU200-4DA

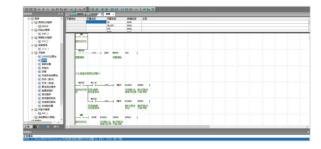


Simplified programming Upgrading of function

Efficient programming environment

Support online modification and incremental compilation to improve compilation efficiency;

User-program can pinpoint errors for finding and maintenance easily.



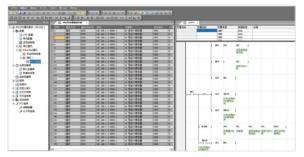
Convenient hardware configuration

The more convenient and intuitive configuration, the more flexible operation.



Tabulation communication

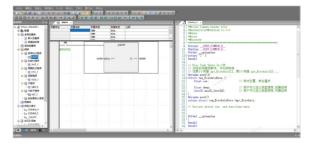
The communication tasks of serial port and Ethernet can be configured through table without invoking complex communication instructions.



Tabulation communication Instruction communciation

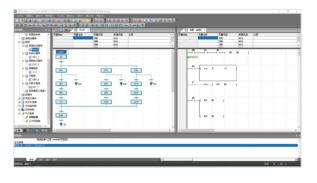
High-level language programming

Support C language transaction program and user-defined function instruction.



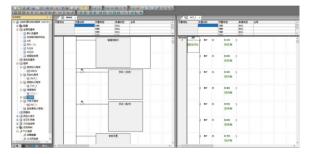
Modularization programming

Support a maximum of 8 main programs, cycle program, initialization program and 255 subroutines at the same time.



Multi-window display programming

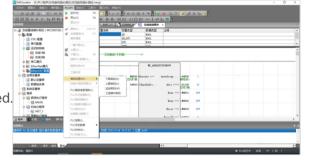
Easy to monitor and search contrastively.



Safe and reliable with multiple protections

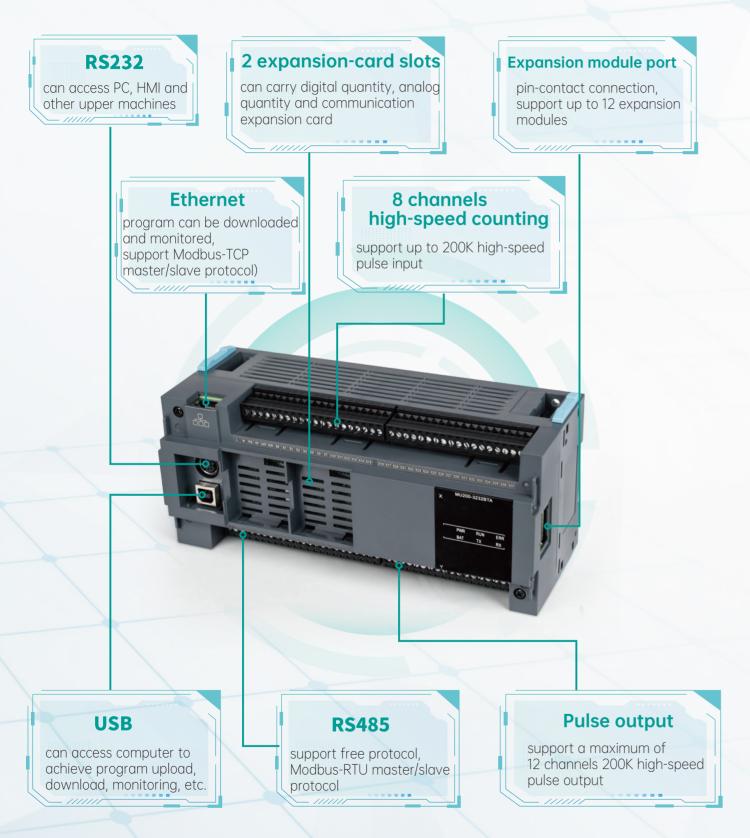
Provide the upload password, download password and monitor password.

The functions of prohibiting formatting and prohibiting upload protect user program security from being cracked.



MU200 Series Small PLC P06

Port Introduction



Industrial Applications and Solution

Packaging Industry—Sorting Packaging Baler

This system adopts MU200-3232BTA module, which interacts with upper machine through USB port to proceed program uploading, program downloading and data monitoring. PLC also interacts the data with HMI using Ethernet protocol through network port and controls the servo driver through pulse so that the system has accurate positioning control and stable process control to solve the inaccurate and inefficient problems.



3C industry—Vertical Furnace

This system adopts MU200-3232BTA module, which interacts with upper machine via USB port to achieve data monitoring management and program modification. PLC also interacts the data with HMI using Ethernet protocol via network port, communicates with inverter and thermostat using Modbus RTU protocol via RS485 port, and controls servo drive through pulse for the aims of achieving accurate motion control and stable process control.



P07 MU200 Series Small PLC P08

Model of MU200 Series

Basic Module Specification

	Model	MU200-1616	MU20	0-2424	MU200-3232	MU200-4040		
Pro	duct Picture	222	222		222			
		MU200 BRAS	Series	MU2	00BTA Series	MU200-4040BTA Series		
	High-speed Pulse Output	-		8*200KHZ	pulse output(Y0~Y7)	12*200KHZ pulse output(Y0~Y13)		
Pulse Resoure	Single-phase Count Channel	8X200KH	Iz, AB pho	ase counti	ng 4X100KHz	8*200KHz, AB phase count 4*100KHz, high-speed filter parameter can be set independently		
	Max. Logical IO Point			X0~X	.777 Y0~Y1777	(Octal)		
IO Resource	Digital Filter Function	X0-X7 adopt others adopt	the first g the secon	group digi ad group c	tal filter, the range digital filter, the rang	of input filter constant is 0-60ms; le of input filter constant is 0-60ms		
xecution Speed	Simple Instruction				30nS			
	Program Power-down Permanent Protection				Yes			
Register	User Program				64k Step			
	Power-down Retention	Element	M、S、D、	C, T car		power-down retention function		
	Initialization Program				0~8			
	Sequential Function	1~8, Min. 1 sequential execution program						
Program Type	Program Cycle Execution Program	0~8						
3 /1	Subroutine	0~256						
	Script Program(C)	0~4096, supporting standard C language						
Data Block	Data Block Capacity	Element D and R can set a maximum of 12000						
Data Block	Input Relay X	1024(Note 1)						
	Output Relay Y	1024(Note 1)						
	Auxiliary Relay M	8192						
	Special Auxiliary Relay SM	1536						
	Status Relay S							
	Timer T	Total number 512 100ms precision, 210: T0~T209 10ms precision, 170: T210~T479 1ms precision, 32: T480~T511						
Number of Soft Element	Counter C	Total number 308 16-bit general U-counter: C0~C199, 200 points 32-bit general bi-directional counter: C200~C235, 36 points 32-bit high-speed counter: C236~C307, 72 points						
	Data Register D				16000			
	Expansion Data Register R				16000			
	Partial Data Register LM				256			
	Partial Auxiliary Relay V				256			
	Indexed Addressing				256			
	Register Z Special Digital Register SD				1536			
	Forced Element Function				Supported(Note 2)			

	Model	MU200-1616	MU20	0-2424	MU200-3232	MU200-4040		
Product Picture				322	777	322		
		MU200BRA Seri	es	MU20	00BTA Series	MU200-4040BTA Series		
	External Interrupt		8	rising/fal	ling edge triggering	be supported		
	High-speed Count Interrupt				8			
	Serial Port Interrupt				8			
Interrupt Resource	PTO Output Complete Interrupt Interpolation Complete		8		1	12		
	Interrupt Passing Position Interrupt	6						
	Power Failure Interrupt	1						
	Communication Port of Expansion Card	1 channel(Note 4) 2 channels						
Serial Port Communication	Local Host Communication Port	1-channel RS485, 1-channel RS232						
	Communication Protocol	Modbus master/ Modbus slave/ free port/ Mcbus						
	Programming Debugging	Support to upload and download operation through Ethernet, monitor program, online modifying						
	Supporting Multi-socket	5 Sockets, 20 connections						
Ethernet	Modbus/TCP	1)supporting master/slave station 2)supporting configuration and networking communication						
	Free Port	1)transmit-receive of free protocol 2)supporting multiple Sockets						
USB Port	Programming & Debugging	Support to uploo	ad and do	ownload o	peration through US	B, monitor program, online modifying		
Real-time Clock	Real-time Clock				Battery retention			
Online Modification	Online Modifying				Supported(Note 3)			
Accessing Control		Upload po	assword,	downloo	d password, and m	onitor password		
and User Program Protection	Upload Prohibition				Supported			

Note 1: The number of X and Y elements are addressed based on octal, for example, the address X10 represents the 8th input point.

Note 2: The forced element function is provided to facilitate debugging and analysis of user programs and improve debugging efficiency. A maximum of 128-bit elements and 16-word elements can be forced simultaneously.

Note 3: The user program can be modified online during PLC operation.

Note 4: MU200-1616 module supports one expansion card only.

P09 MU200 Series Small PLC P10

MU200 Main Module Specification

	Model		MU200-1616	MU200-2424	MU200-3232	MU200-4040		
Product Picture			222	227	222	12.		
Electric	Specification o	f Input Port						
N	Node of Signal Inp	out	Source type	pe/leakage type , usei	can choose through	S/S port		
	Detection	n Voltage		24'	VDC			
Electric	Input Im	pedance		X0~X7 ports: 3.3KΩ,	other ports 4.3 KΩ			
Parameter	Inpu	t ON	External	loop resistance is less	than 400 Ω , input vol	tage > 15V		
	Input	OFF	External la	oop resistance is grea	ter than 24KΩ, input	voltage < 5V		
F: + F +	Digito	ıl Filter	X0~X7 own digital fi	Iter function, filter time of	can be set by programm	ing(0~64ms adjusted)		
Filter Function	Hardwa	re Filter	Other I/O ports own	hardware filter functi	on except X0~X7, filte	er time is about 10ms		
			X0~X7 can achie	eve functions like high	-speed count, interrup	ot, pulse capture		
High-speed Function			The coun	t frequency of X0~X7	ports can up to 200K	HZ		
Common Wiring Port				One common	port, S/S port			
Electric	Specification of	Output Port						
Loop-power Rated Voltage			5~24VDC					
	Electric Isolation		Optocoupler isolation					
	Motion Indication		LED lights up when optocoupler be driven					
	Conductio	Conduction Impedance		Less than 0.3Ω				
	Min.	Min. Load		5mA(5~24VDC)				
Transistor Output Port	Max. Outpo	ut Frequency		200	KHZ			
	Max. Output	Resistance Load		0.3A/	1 point			
	Current	Inductive Load		7.2W/	24VDC			
	ON Resp	onse Time	0.5ms MAX(100mA/DC24V)					
	OFF Resp	onse Time						
	Output Co	mmon Port		One group wi	One group with 4 channels			
	Loop-power F	Rated Voltage		5-30VD0	C/220VAC			
	Electric	Isolation		Relay is	olation			
	Motion	Indication		LED lights up whe	n relay be closed			
	Conductio	n Impedance		Less th	an 0.3Ω			
Relay Output Port	Min	. Load	/					
Output Fort	Max. Outp	out Frequency		11	HZ			
	Max. Output	Resistance Load		2A/	channel			
	Current	Inductive Load		80VA@	220Vac			
	ON Respo	onse Time		No greater tha	ın 10ms			
	OFF Respo	onse Time		No greater the	111 TOIII2			
	Output Co	mmon Port		One group wi	th 4 channels			

Expansion Card Specification

Model		MUE-2AD	MUE-2AM	MUE-2DA		
Product Picture		WALL SEC	TARREST LANGUAGE	Long days in		
Product D	escription	2-CH analog quantity input	1-CH input, 1-CH output (analog quantity)	2-CH analog quantity output		
Range of Analog Quantity Input		Voltage: 0~+10V		1		
Digital Input		Default: 0~10000				
Resolution		5mV(Voltag	1			
Convers	ion Speed	2ms/channel				
Conversion	n Precision	$\pm 1\%$ of the full scale				
Input	Voltage		1			
Impedance	Current	250ΚΩ				
Range of Analog Quantity Output		Voltage: 0~+10V 0~+5V 1~5V		Current: 0~20mA 4~20mA		
Min. Load	l(Voltage)	1	1ΚΩ			
Max. Load	d(Current)	1	500Ω			

Model	MUE-4X	MUE-4XY	MUE-4Y		
Product Picture	199999 A. C. C.	195900 P	PROPERTY OF THE PROPERTY OF TH		
Product Description	4-point 24VDC input	2-point input 2-point transistor output	4-point transistor output		
Input Mode	Source type	pe/leakage type			
Input Voltage Level	24VDC(-	15%~+20%)	1		
Port Filter Time	1ms~64ms (default 8r	ns, can be adjusted by software)	/		
Input Impedance	4				
Signal Frequency		1KHZ(MAX)			
Isolation Mode		Optocoupler isolation			
Loop-control Voltage	/	DC 5V	/ ~ 24V		
Load Current		0.3A/1 point;	0.8A/4 points		
Min. Load	,	5mA(DC 5~24)			
Open-path Leakage Current		Less than 0).1mA/DC 24V		
ON Response Time		0.5ms MAX(100mA/DC24V)			
OFF Response Time		U.)XAM 2MIC.U	UUITIA/DC24V)		

Model	MUE-RS485	MUE-RS232			
Product Picture	MODERATE STATE OF THE STATE OF	MAN MARKET			
Product Description	RS485 communication expansion card	RS485 communication expansion card			
Communication Rate	1200、2400、4800、9600、19200、38400、57600、115200				
Protocol	Free port protocol, N	Modbus-RTU (master/slave)			
Terminal Matching Resistance	/				
Isolation Model Magnetic couple isolation					

P11 MU200 Series Small PLC P12

Expansion Module Specification

Мо	del	MU200-0808ERN	MU200-0808ETN	MU200-1600ENN	MU200-0016ERN	MU200-0016ETN
Product	: Picture	Wilcon code en	We prosident to X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Wilder food has	Walload or Her eller	Victor or Het Th. Victor or Het
Mode of S	ignal Input	So	urce type/leakage type			
Detection	n Voltage		24VDC			
Input Re	sistance		4.3ΚΩ			1
Max. Input	Frequency		1KHZ			
Hardwa	re Filter		About 0.5ms			
Digital	Filter		1∼128ms, default 8	ms		
Loop-power Rated Voltage		Under AC250V/DC30V	5~24VDC		Under AC250V/DC30V	5~24VDC
Circuit Ir	nsulation	Relay mechanical insulation	Optocoupler insulation		Relay mechanical insulation	Optocoupler insulation
Motion I	ndication	LED lights up when the relay output contact draws	LED lights up when the optocoupler is driven		LED lights up when the relay output contact draws	LED lights up when the optocoupler is driven
Open-pat Cur	h Leakage rent	1	Less than 0.1mA/24VDC		/	Less than 0.1mA/24VDC
Mir	n. Load	2mA(5VDC)	5mA(5~24VDC)		2mA(5VDC)	5mA(5~24VDC)
Max. Outpu	t Frequency	/	1KHZ		/	1KHZ
Max. Output Current	Resistance Load	2A/1 point, 8 points in all at CM end total current is less than 8A	0.3A/1 point, 0.8A/4 points 1.6A/8 points	/	2A/1 point, 8 points in all at CM end total current is less than 8A	0.3A/1 point, 0.8A/4 points 1.6A/8 points
	Inductive Load	AC220V/80VA	7.2W/24VDC		AC220V/80VA	7.2W/24VDC
ON Response Time		20ms MAX	0.5msMAX (100mA/DC24V)		20ms MAX	0.5msMAX (100mA/DC24V)
OFF Response Time		20ms MAX	0.5msMAX (100mA/DC24V)		20ms MAX	0.5msMAX (100mA/DC24V)
Output Co	mmon Port	4 channels share 1 port	Each group is isolated		4 channels share 1 port	Each group is isolated

Expansion Module Specification

Model		MU200-4AD	MU200-8AD	MU200-4DA		
Product Picture		MUZSO-FAID PER RUN ESR	MU200-8AD PRIT RUN ESRI	MU280-40A PRIT RUN ESRI		
Number of Analog Output Point	Quantity	4 points	8 points	4 points		
Range of Analog Quantity Output		-5~+5V 4~20MA 0~5V 1~5V ((Voltage:-10~+10V Current:0~20mA 0~10V 4~20mA (0~10V and 0~20mA are synchronized) (scale switched by upper computer)		
Resolution	1	5mV(Voltage) / 10uA(Current)				
Number of AD	C Bit	14bit 16bit		/		
Conversion Sp	eed	8ms/4 channels 16ms/8 channels		2ms/ channels		
Sampling Pred	cision	±1%				
Conversion Pre	ecision		$\pm 1\%$ of the full scale			
Input Impedance	Voltage	400	400ΚΩ			
	Current	250	0Ω	,		
Load Impedance	Voltage		1	1KΩ (Min.)		
	Current	,	/			
Isolation		The analog circuit and digital circuit are separated with a photoelectric coupler and the analog channels are not separated with each other.				
24V Power Consu	umption	30mA	45mA	20mA		

P13 MU200 Series Small PLC P14

Expansion Module Specification

Model		MU200	-4PT	MU200-8TC
Product Picture			200-49T PMR RJA ESR	MAJOR STC PINT RAN ESS
Input Channel		4		8
Sensor Type		PT100、CU50、CU	J100、0∼300R	J-type, K-type, R-type, S-type, T-type, E-type, N-type, B-type thermocouple
Display Mode		°C, °F		°C, °F
Temperature Resolution		0.1°	С	0.1°C
Sampling Cycle	250ms/	4CH, 500ms/4CH, 1	000ms/4CH (Optional)	/
Response Time		/		800ms/8CH
Whole Precision		Full scale : $\pm 1\%$		±0.5% of F.S.(@25°C±5°C) ±1%of F.S.(@0~50°°C)
Sensitivity		/		0.1°C
	PT100	"-200~850°C"	18.520Ω ~390.48Ω	
Measurement Range	Cu100	"-50~150°C"	$78.4Ω \sim 164.27Ω$,
weasarement kange	Cu50	"-50~150°C"	39.242Ω ~82.135Ω	
	NTC	/	0∼300R	
Isolation Mode	with a pho	g circuit and digita stoelectric coupler parated with each	l circuit are separated and the analog channels other.	Channels are isolated from each other(400VDC) Analog and digital channels are isolated from each other(1500VDC)
	Betwee	n digital circuit an	d ground (500VAC)	
Isolation withstand voltage	Betwee	n analog circuit an	d ground (500VAC)	/
	Between	digital circuit and	analog circuit (500VAC)	
Function	First-order delay filter function Overrun detection function Slope over-alarm function Temperature compensation function			Disconnection detection, over-limit alarm, slope alarm
Bus 24V Power Consumption		≤30r	nA	≤30mA

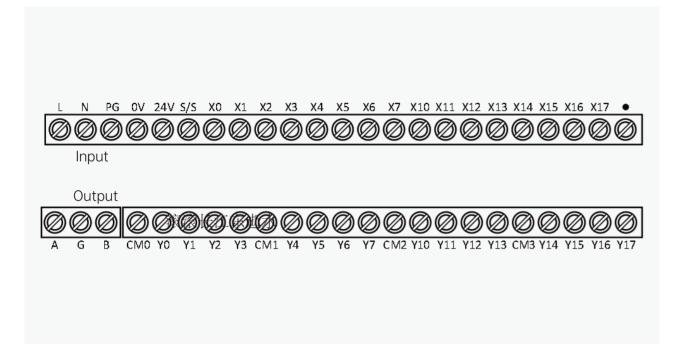
Model and Dimensions of MU200 Series

Classification	Model	Description	Dimensions(L×W×H)
	MU200-4040BTA	40-point DC24V input, 40-point transistor output	246x90x85(mm)
	MU200-4040BRA	40-point DC24V input, 40-point relay output	246x90x85(mm)
	MU200-3232BTA	32-point DC24V input, 32-point transistor output	210x90x85(mm)
Basic Module	MU200-3232BRA	32-point DC24V input, 32-point relay output	210x90x85(mm)
Datie Module	MU200-2424BTA	24-point DC24V input, 24-point transistor output	180x90x85(mm)
	MU200-2424BRA	24-point DC24V input, 24-point relay output	180x90x85(mm)
	MU200-1616BTA	16-point DC24V input, 16-point transistor output	145x90x85(mm)
	MU200-1616BRA	16-point DC24V input, 16-point relay output	145x90x85(mm)
	MU200-0016ERN	16-point relay output	60x90x85(mm)
	MU200-0016ETN	16-point transistor output	60x90x85(mm)
IO Expansion Module	MU200-1600ENN	16-point DC24V input	60x90x85(mm)
	MU200-0808ERN	8-point DC24V input, 8-point relay output	60x90x85(mm)
	MU200-0808ETN	8-point DC24V input, 8-point transistor output	60x90x85(mm)
	MU200-4AD	4-channel analog quantity input	60x90x85(mm)
	MU200-4DA	4-channel analog quantity output	60x90x85(mm)
Analog Quantity Expansion Module	MU200-8AD	8-channel analog quantity input	60x90x85(mm)
	MU200-8TC	8-channel thermocouple	60x90x85(mm)
	MU200-4PT	4-channel thermal resistance	60x90x85(mm)
	MUE-4X	4-point input	38x46.4x11.5(mm)
	MUE-4Y	4-point output	38x46.4x11.5(mm)
	MUE-4XY	2-point input, 2-point output	38x46.4x11.5(mm)
	MUE-2AD	2-channel analog quantity input	38x46.4x11.5(mm)
Expansion Card	MUE-2DA	2-channel analog quantity output	38x46.4x11.5(mm)
	MUE-2AM	1-channel analog quantity input, 1-channel analog quantity output	38x46.4x11.5(mm)
	MUE-RS232	RS232 communication	38x46.4x11.5(mm)
	MUE-RS485	RS485 communication	38x46.4x11.5(mm)
	MUE-CAN	CAN communication	38x46.4x11.5(mm)

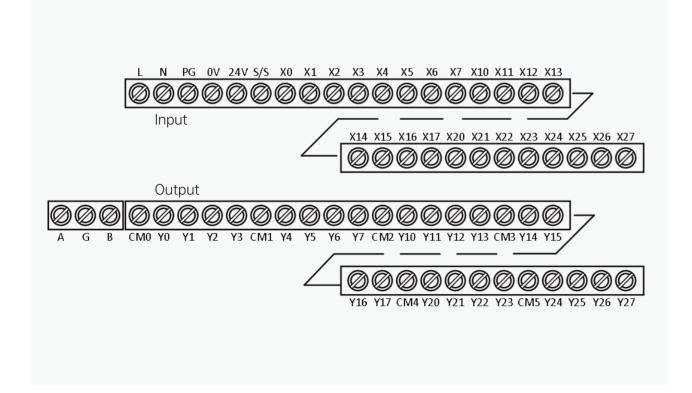
MU200 Series Small PLC P16

Terminal Diagram of Basic Module

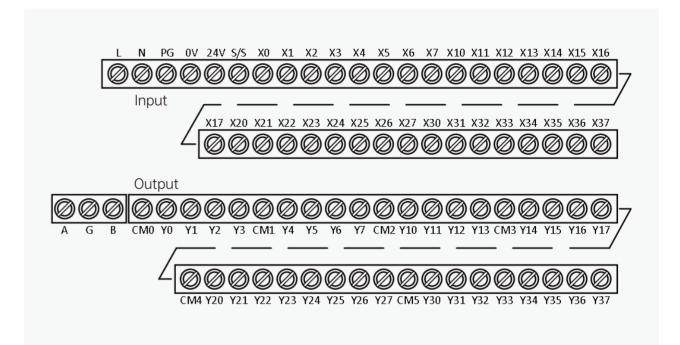
MU200-1616



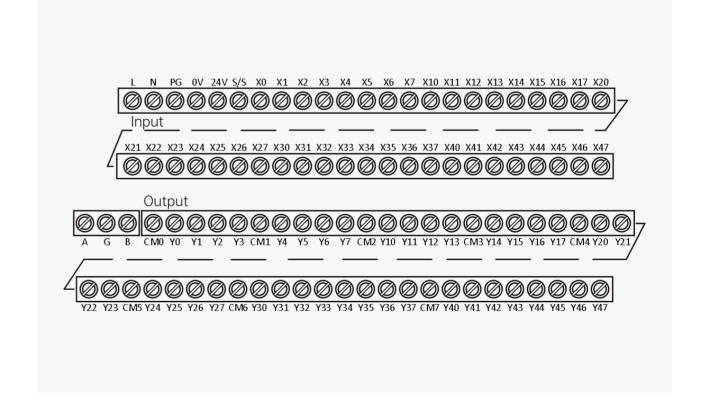
MU200-2424



MU200-3232



MU200-4040



P17 MU200 Series Small PLC P18

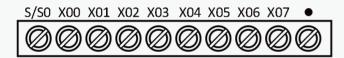
Terminal Diagram of Expansion Module

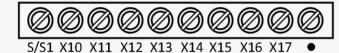
MU200-0016ETN/ERN



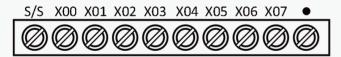


MU200-1600ENN





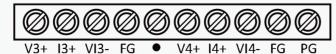
MU200-0808ETN/ERN



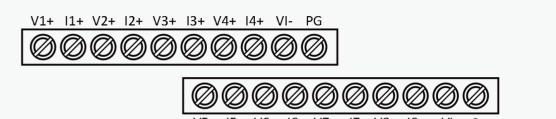


MU200-4AD

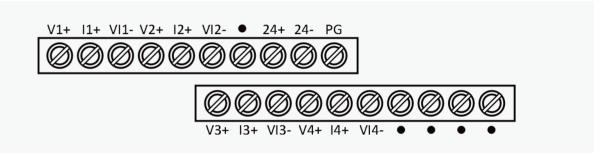




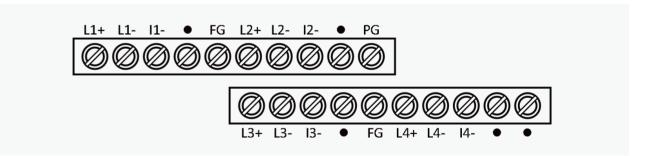
MU200-8AD



MU200-4DA



MU200-4PT



MU200-8TC

