



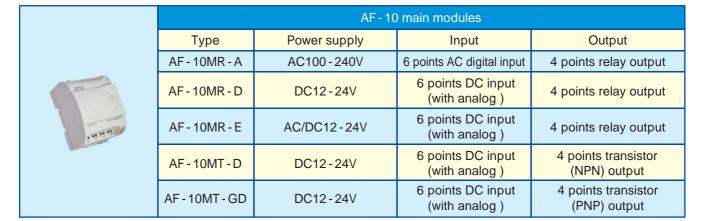




Selection Guide...

AF Modules >>)







AF - 20 main modules					
Type	Power supply	Input	Output		
AF - 20MR - A	AC100-240V	12 points AC digital input	8 points relay output		
AF-20MR-D	DC12-24V	12 points DC input (with analog)	8 points relay output		
AF-20MR-E AC/DC12-24V		12 points DC input (with analog)	8 points relay output		
AF-20MT-D	AF-20MT-D DC12-24V		8 points transistor (NPN) output		
AF-20MT-GD	DC12-24V	12 points DC input (with analog)	8 points transistor (PNP) output		



Text panel				
Туре	Power supply	Display	Communication interface	
SH300	DC12-24V	4.3"STN(12 Characters * 4 Rows)	RS232/RS422/RS485	
SH200	DC12-24V	4.3"STN(12 Characters * 4 Rows)	RS232	



Telephone voice module				
Туре	Power supply	Property		
AF-MUL-A	AC110-220V			
AF-MUL-D	DC12-24V	Telephone remote control, automatic dialing alarm and voice broadcasting		
AF-AUDRecording line		alam and voice producting		



Switching power supply					
Туре	Output voltage	Output current	Туре	Output voltage	Output current
SP-05AS	DC5V	6A	SP-12AL	DC12V	6A
SP-12AS	DC12V	ЗА	SP-24AL	DC12V	ЗА
SP-24AS	DC24V	1.5A	SP-48AS	DC48V	0.75A
SP-05AL	DC12V	10A	SP-48AL	DC48V	1.5A

Selection Guide...

Technical parameters >>>



Type Parameters	AF - 10MR - A AF - 20MR - A	AF - 10MR - E AF - 20MR - E	AF - 10MT - E AF - 20MT - E	AF - 10MR - D AF - 20MR - D	AF-10MT-D AF-20MT-D	AF-10MT-GD AF-20MT-GD		
Power supply								
Rated voltage	AC100 - 240V	AC/DC12-24V	DC12/24V	DC12/24V	DC12/24V	DC12/24V		
Permitted voltage range	AC85 - 260V	AC/DC10-28V	DC10-28V	DC10-28V	DC10-28V	DC10-28V		
Power consumption	3W/ 5W	3W/ 5W	1.5W/2W	3W/ 5W	1.5w/2W	1.5w/2W		
Input part								
Digital input	Yes	Yes	Yes	Yes	Yes	Yes		
Analog input	NO	NO	NO	Yes	Yes	Yes		
Input voltage for Signal 0	AC0-40V	AC0-5V DC0-5V	DC0-5V	DC0-5V	DC0-5V	DC0-5V		
Input voltage for Signal 1	AC80 - 240V	AC10-24V DC10-24V	DC10-24V	DC10-24V	DC10-24V	DC10-24V		
Analog voltage	1	/	/	DC0-10V	DC0-10V	DC0-10V		
Input current for Signal 0	< 0.1mA	< 0.2mA	< 0.4mA	< 0.4mA	< 0.4mA	< 0.4mA		
Input current for Signal 1	0.5mA	1mA	1mA	1mA	1mA	1mA		
Output part								
Output type	Relay	Relay	Transistor (NPN)	Relay	Transistor (NPN)	Transistor (PNP)		
Output voltage	AC0 - 240V DC0 - 30V	AC0 - 240V DC0 - 30V	DC0-80V	AC0 - 240V DC0 - 30V	DC0-80V	DC0-80V		
Output current	Resistance 10A Induction 2A	Resistance 10A Induction 2A	2A	Resistance 10A Induction 2A	2A	2A		
Switching frequency								
Machine		10Hz	10Hz					
Resistor load/Lamp lo	ad	2Hz						
Inductive load		0.5Hz						
Environmental parame	eter							
Working temperature		0 ~55						
Storage temperature		-40 ~70						
Transport temperature	9	-40 ~70						
Protection grade		IP20						
Anti - interference		EN55011(B class)						
Insulation strength		IEC1131						
25 clock buffer		100h						
Real-time clock preci	ision	Max ±5s/day						
Others								
Timer 127								
Counter		127						
Function block		127						
Real-time clock control intervals		127						
Program memory		64k						
Dimensions		90×71×58(10点) / 90×126×58(20点)(Unit: millimeter)						
Mounting method		Standard 35mm DIN rail installation and screw fixing						

Reliability...

More possibility



Switching power supply



Sensor



Text panel



Communication cable



Water Pump

AF input

Support digital input and analog input such as pressure, liquid level, temperature, humidity and flow etc. And the received analog signal is DC0-10V. The minimum accuracy: 0.1.

(7)

Switching power supply

It should provide 5V, 12V, 24V and 48V, and their power are 36W and 72W respectively. AF power supply have AC 100-240V, AC 14-20V and DC12-24V.

Programming method: FBD

Timers: 127

Ocunters: 127

Network function

Set different PLC addresses through RS-485 bus to realize network function, which breaks through the limitation of short distance operation. And it is able to realize date acquisition, saving and computer monitoring with SCADA software.

Telephone remote control

It can control PLC through telephone keys, and has voice broadcasting function making PLC become vivid.

Real-time clock control

intervals: 127

function The battery terminals

Charge the external battery to realize UPS function.

FAB Output

FAB output has relay output or transistor output. When it is relay output, the resistive load 10A, and inductive load 2A can be provided. Transistor output includes NPN and PNP. The maximum output current of transistor type is 2A.

Removable display panel

This panel can be used for displaying the input/output status, as well as manual programming, modifying program parameters. It also can be connected to text panel to display the status and modify parameters more directly and clearly.

AF-20MR-A

A 60 00 00 00 00 0

The socket of telephone crystal plug

clearly.

Manual recording microphone Speak into microphone to make sure the voice is recorded

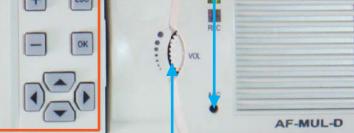
Plug into telephone wire to realize the telephone remote control function.

MUL power

AF-MUL power has AC100-240V and DC12-24V. It has the same optimum power configuration as AF main machine.



OUTPUT 8xRELAY/10A





Terminals for external speaker

It can be connected to an external poweredspeaker to amplify the voice. The volume is not under the control of "volume switch 7".

Volume switch

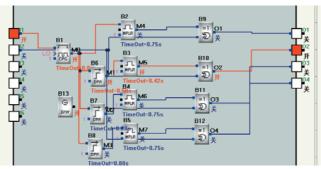
Adjusts the volume of AF-MUL speaker.

Communication port

It can be connected to PC to program and monitor etc.

Free Program and Installation...

Choose the flexible and efficient FBD language for programming. 127 function blocks can be processed at most.



Quick program and Safe enough!

Simulation mode

It supports off-line simulation, and corrects the program easily to meet your requirements, which avoids many possible inconvenience existed in on-line testing.

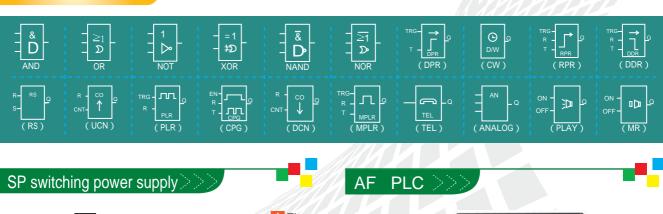
Monitor mode

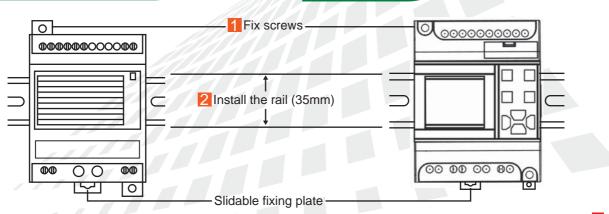
Check the input/output status during the running of your application program.

Online help

Please consult AF User`s Manual online.

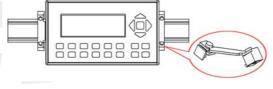
20 Function blocks

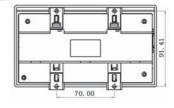




Text panel







Flush mounting

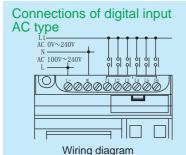
DIN rail mounting

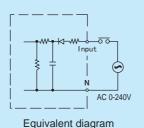
Screw mounting

Hardware Connections...

Input connections

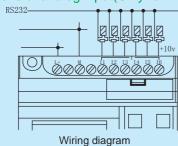


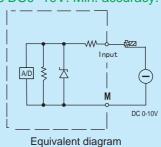




DC type Vi — DC OV~24V DC 12V~24V Input DC 0-24V Wiring diagram Equivalent diagram

Connections of analog input(Only for DC type and the analog signal is DC0-10V. Min. accuracy: 0.1)



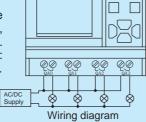


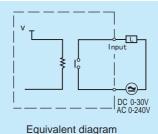
Output connections >



Connections of relay output

Various loads can be connected to the output, such as incandescent lamp, fluorescent light, and contactor etc. The maximum supplied output current: resistive load: 10A, inductive load: 2A.

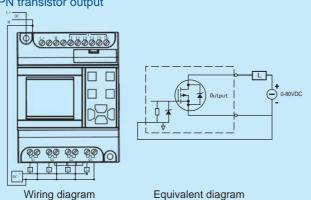




Connections of transistor output

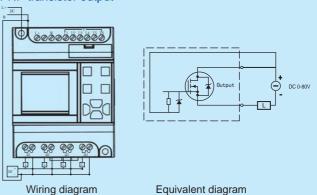
The load connected to AF of transistor type must have the following property:
The maximum switching current is no more than 2A; Transistor type

has NPN and PNP. NPN transistor output



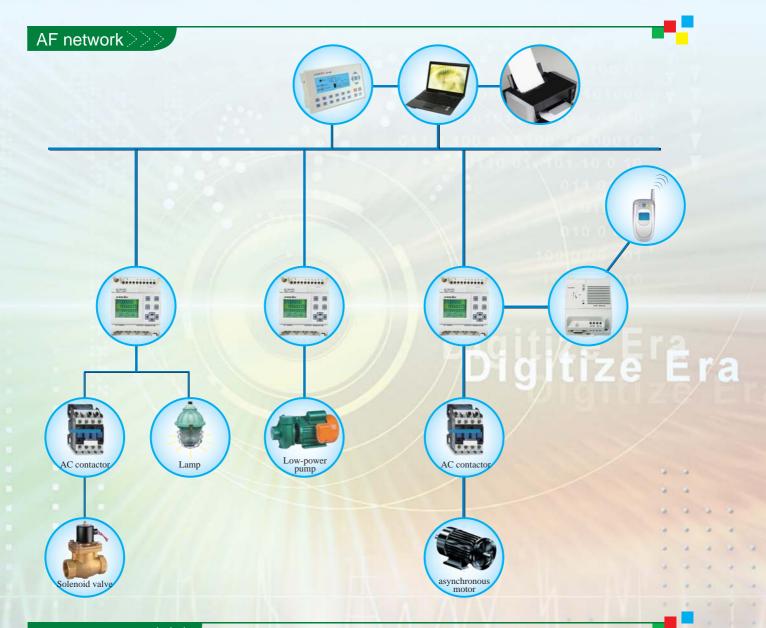
The DC negative pole " - " of the load should be connected to " M " of AF power supply, and the load must be connected to the positive pole " + " of DC power supply. The voltage of the load should not be more than DC80V

PNP transistor output



The DC positive pole " + " of the load should be connected to " L+ " of AF power supply, and the load must be connected to the negative pole " - " of DC power supply. The voltage of the load should not be more than DC80V

Monitoring Your Installation...



AF accessories>>

**************************************	AF_LCD The removable LCD for programming		AF_C232/ AF_D232 Communication cable between AF and PC, realizing programming, simulating and slow monitoring from PC
	AF_P485 The interface between PC and RS485 bus, realizing network function	,	AF_C485/D485 The interface between AF and RS485 bus, realizing network function
AF-COPY	AF_COPY FAB program copy module		AF_AUD The microphone used for recording between audio card of PC and AF-MUL-A/D
	AF_CMP The communication cable connecting PC to the port of telephone voice module		AF(SR)_USB USB/RS232 Adapter
	AF_S485 RS232/RS485 Adapter	(C)	AF_DUSB The communication cable between FAB and PC USB port

Optimized Solutions for Your Applications



AF Series PLC enjoys wide applications, which can be used in industrial and mining enterprises, and in civil appliance. Its main applications include machinery tool automation, injection machine, printing machinery, textile machinery, packing machinery, conveyer belt, environmental protection equipment, elevator, and various production lines etc.

Intelligent Components

For



The whole developmental history of mini automation products

AF series

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