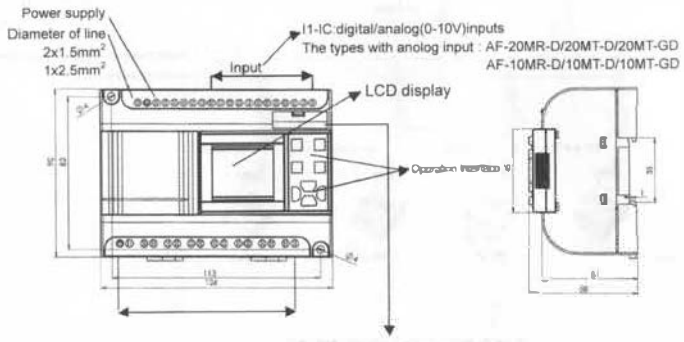
Installation & Connection

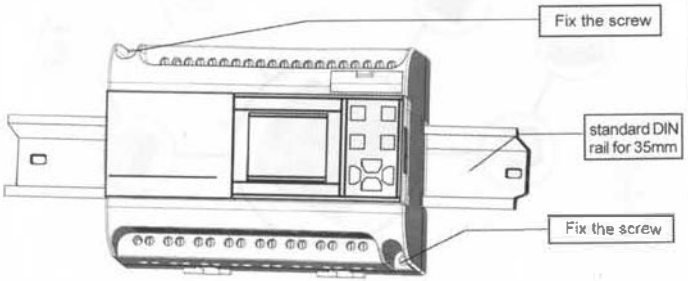
AF Series

Ver 1.0

(※Take 20 points as an example)

(Types) AF-10MR-A/10MR-D/10MR-E/10MT-D/10MT-E/10MT-GD
AF-20MR-A/20MR-D/20MR-E/20MT-D/20MTE/20MT-GD





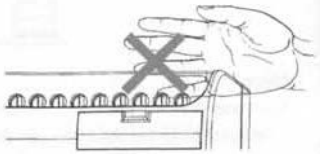
Relay output for AF series

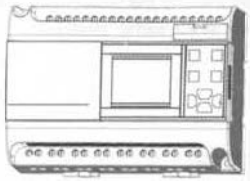
When the Max.current is 10A.
The operations of the relay are up to 100.000 times

AF-20MR-A/AF-10MR-A
AF-20MR-D/AF-10MR-D
AF-20MR-E/AF-20MR-E

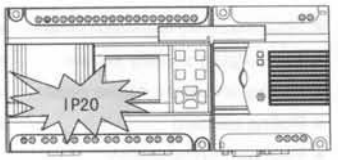
Danger! Hazardous voltage can cause electrical shock and fire. Please disconnect main power before operating equipment. You will find further information in the FAB manual.

Resistive load	Inductive load
10A	2A
10A	2A
10A	2A

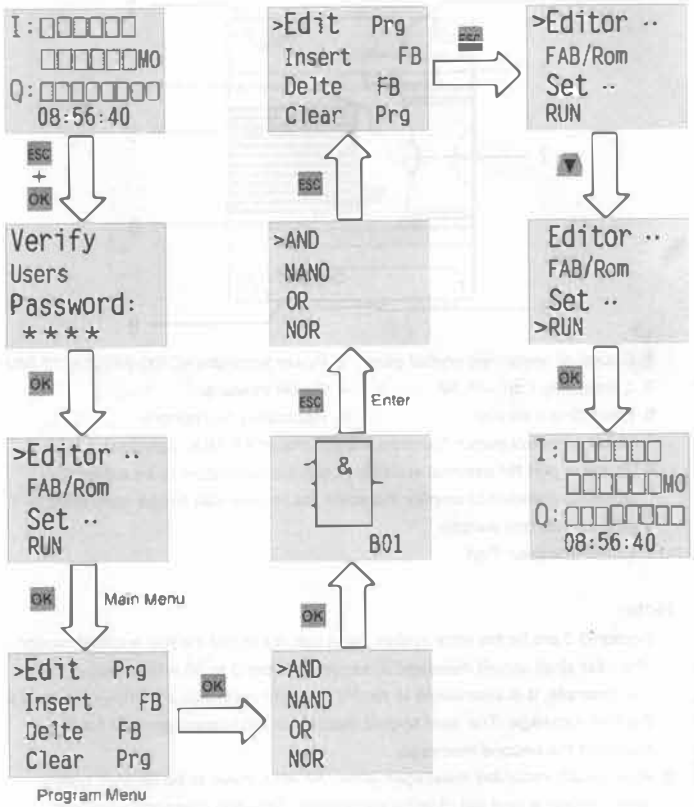




When 25 , the real-time clock keeps running up to 100 hours.

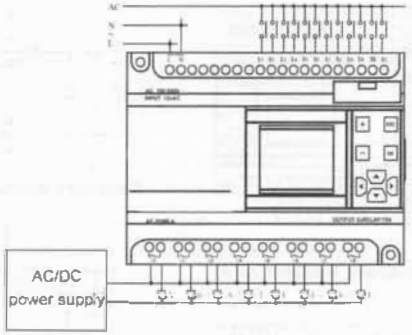


Operation panel

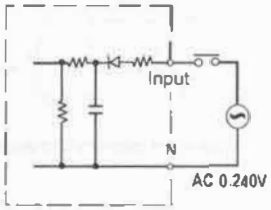


AF-20MR-A/AF-10MR-A

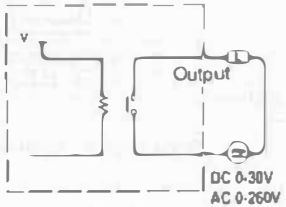
Rated voltage: AC100-240V Main voltage operation range: AC85-260V
Digital input I1-IC: signal 0: AC 0-40V Input current: <0.1mA
signal 1: AC 80-240V Input current: ≤0.5mA
Q1-Q8: Relay output



Wiring diagram (digital input)



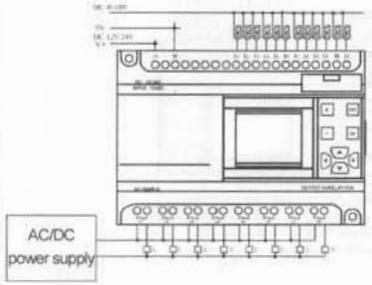
Equivalent diagram (digital input)



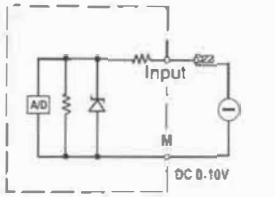
Equivalent diagram (relay output)

AF-20MR-D/AF-10MR-D

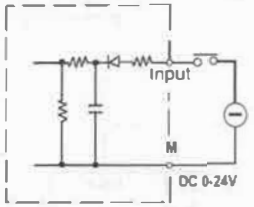
Rated voltage: DC12/24V Main voltage operation range: DC10-28V
Digtal input I1-IC: signal 0: DC 0-5V Input current: <0.4mA
signal 1: DC 10-24V Input current: ≤1mA
Analogue input I1-IC: DC 0-10V Input current: <1mA
Q1-Q8: Relay output



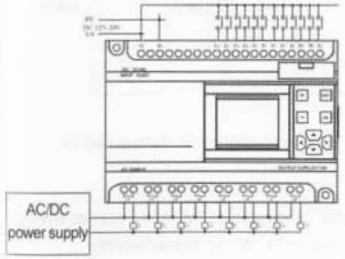
Wiring diagram (analogue input)



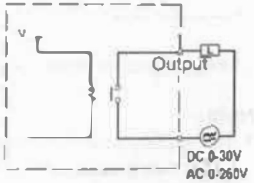
Equivalent diagram (analogue input)



Equivalent diagram (digital input)



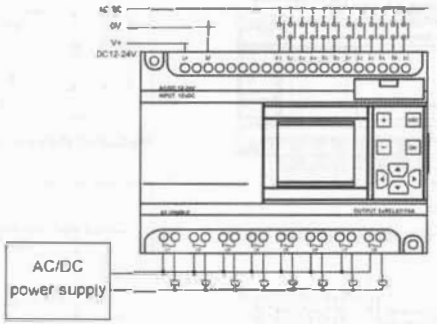
Wiring diagram (digital input)



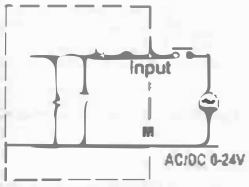
Equivalent diagram (relay output)

AF-20MR-E/AF-10MR-E

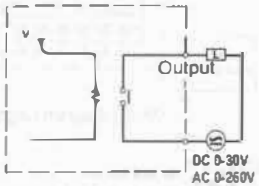
Rated voltage: AC14-20V/DC12-24V Input current: <0.2mA
Main voltage operation range: AC12-24V/DC10-28V Input current: ≤1mA
Digtal input I1-IC: signal 0: AC/DC 0-5V
signal 1: AC12-24V/DC1024V
Q1-Q8: Relay output



Wiring diagram (digital input)



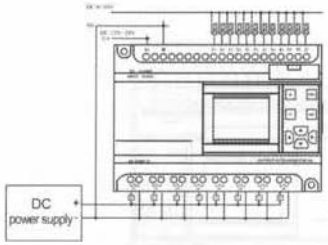
Equivalent diagram (digital input)



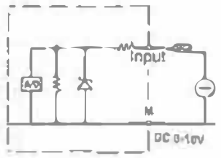
Equivalent diagram (relay output)

AF-20MT-D/AF-10MT-D

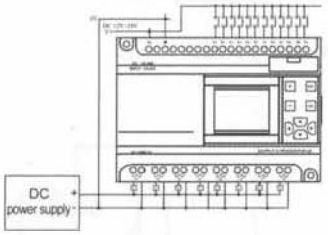
Rated voltage: DC12/24V Main voltage operation range: DC10-28V
Digital input I1-IC: Signal 0: DC 0-5V Input current: <0.4mA
Signal 1: DC 10-24V Input current: ≤1mA
Analogue input I1-IC: DC 0-10V Input current: <1mA
Q1-Q8: Transistor output (equivalent NPN)



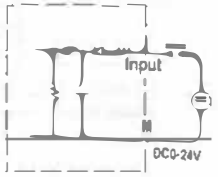
Wiring diagram (analogue input)



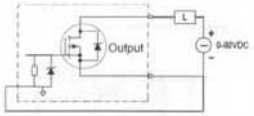
Equivalent diagram (analogue input)



Wiring diagram (digital input)



Equivalent diagram (digital input)

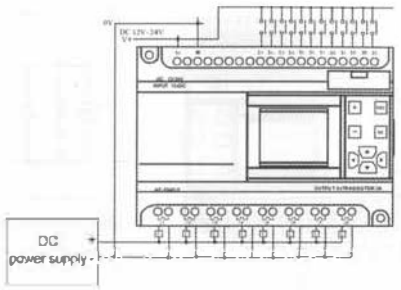


Equivalent diagram (P channel output)

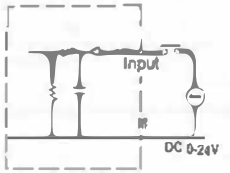
Note:
1. The negative pole "-"of the load should be connected to "M" of AF power supply
Load must be connected to the positive pole "+ "of DC power supply.
2. The voltage of the load should not be more than DC80V.

AF-20MT-E/AF-10MT-E

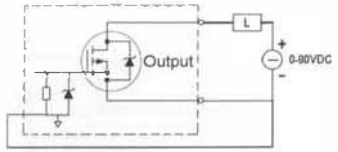
Rated voltage: DC12/24V Main voltage operation range: DC10-28V
Digital input I1-IC: Signal 0: DC 0-5V Input current: <0.4mA
Signal 1: DC 10-24V Input current: ≤1mA
Q1-Q8: Transistor output (equivalent NPN)



Wiring diagram (digital input)



Equivalent diagram (digital input)

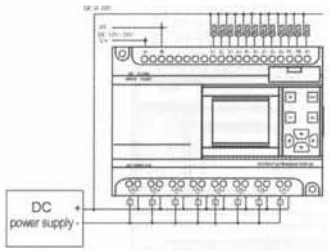


Equivalent diagram (P channel output)

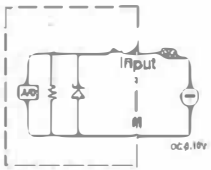
Note:
1. The negative pole "-"of the load should be connected to "M" of AF power supply.
Load must be connected to the positive pole "+ "of DC power supply.
2. The voltage of the load should not be more than DC80V.

AF-20MT-GD/AF-10MT-GD

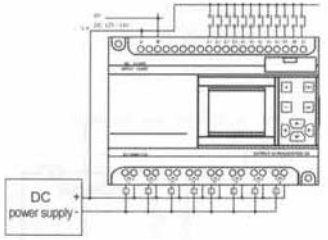
Rated voltage: DC12/24V Main voltage operation range: DC10-28V
Digital input I1-IC: Signal 0: DC 0-5V Input current: <0.4mA
Signal 1: DC 10-24V Input current: ≤1mA
Analogue I1-IC: DC 0-10V Input current: <1mA
Q1-Q8: Transistor output (equivalent PNP)



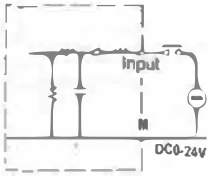
Wiring diagram (analogue input)



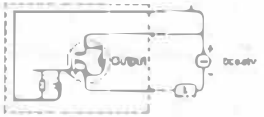
Equivalent diagram (analogue input)



Wiring diagram (digital input)



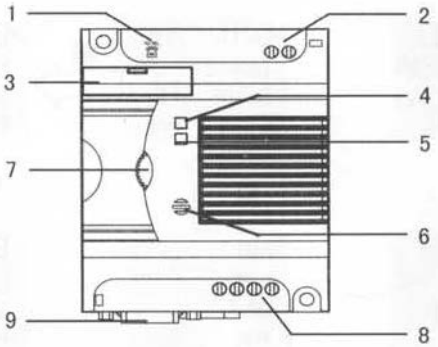
Equivalent diagram (digital input)



Equivalent diagram(N channel output)

Note:
1. The positive pole "+ "of the load should be connected to "L+ "of AF power supply.
Load must be connected to negative pole "-"of DC power supply
2. The voltage of the load should not be more than DC80V.

The Voice Module

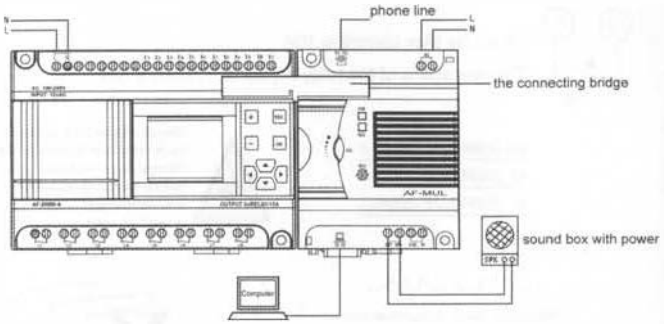


1. Socket of telephone crystal plug
2. Power terminals(AC100-240V/DC12-24V)
3. Connecting port with AF
4. Power indicator
5. Recording indicator
6. Recording microphone
7. Volume control switch (controls the volume of AF-MUL Speaker)
8. Terminal port for external speaker (it can be connected to an externally powered-speaker to amplify the voice. Its volume can not be controlled by 7 (Volume control switch)
9. Communication Port

Note:

1. Section 0-3 are for the voice system.users can not record the four sections randomly.
2. The user shall record message in sequence from 0 to 98 without skipping. For example, it is impossible to record the third message after having recorded the first message. The user should record the third message after having recorded the second message.
3. All originally recorded messages within AF-MUL have to be deleted before commencing a new set of voice recordings. The 99th message does not indicate recording, but wiping away all of the recorded messages.

Conection between the voice module and AF



Note:

1. Please connect the Voice Module to AF with connecting bridge before you write or program. And you can edit program etc. trough the communication between PC and the communication port of Voice Module.
2. After connecting AF to Voice Module, please electrify the Voice Module first, and then electrify AF, or electrify both of them at the same, otherwise, AF will not work normally.

Application Scope

★ Small machinery automation system
★ Anti-burglary security system
★ Heating and air-conditioner system
★ Rolling billboard
★ Fountain control system
★ Agriculture irrigation & Lighting control
★ Sewage disposal automation
★ Home intelligent control system
★ Factory school bell automation control
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Connecting AF network

Short network Wiring (Within 1.2KM)