

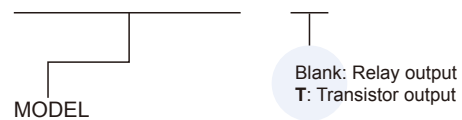


### Features

- FBD + LD System.
- Support start-up screen (108×64 pixels)
- Multiple communication port.
- Password protection, copy protection.
- 104 FBD integrated functions, 97 LD integrated functions, pre-tested functions.
- Linking of 1024 function block is possible.
- Display of message texts, adjust program parameter.
- Integrated data latch.
- Flexibly expandable up to 10000 points.
- Support full modbus protocol.
- Free PC software Mindman Editor + Mindman Utility.

### Order example

**MA – 1188 – T**



Model	Type instruction	
MA-1188	Digital Inputs	LED indicator
MA-1188D		LCD monitor
MA-1189	Digital & Analog Inputs	LED indicator
MA-1189D		LCD monitor

### Specification

Model	MA-1188 MA-1188D	MA-1188-T MA-1188D-T	MA-1189 MA-1189D	MA-1189-T MA-1189D-T
Operation Voltage	10~30VDC/24VDC			
Inputs	8*DI(Isolation) status low: <2VDC status high: >4VDC		4*DI(Isolation) status low:<2V DC status high:>4V DC 4*AI(0~10VDC)	
Outputs	4*Isolation (Relay)	4*Isolation (Transistor)	4*Isolation (Relay)	4*Isolation (Transistor)
Continuous Current	Relay: 5A (with resistive load), 2A (with inductive load)	Transistor: 1.75A (OCP/OTP/UVLO)	Relay: 5A (with resistive load), 2A (with inductive load)	Transistor: 1.75A (OCP/OTP/UVLO)
	Relay: 30HZ	Transistor: 100KHZ	Relay: 30HZ	Transistor: 100KHZ
Input Operating Frequency	250KHZ (Total 1000KHZ)			
RTC/ Hold During Power Off	Yes			
Operation Temperature	-20 ~ +75 °C			
Communication Ports	USB*1 & RS-485*2 & RS-232*1			
Communication Baud Rate	2400~921600 bps			
Degree Of Protection	IP20			
Base Controller IOs	12 IOS			
Installation	35 mm DIN rail or Flush mounting			
Dimension (W×H×D mm)	76.4×118.2×40.7 mm			
Communication Cable	CAB-MINIUSB60 or RS-485 or RS-232			

### Application software



#### Mindman editor

- Support Model: MA series distributed control system
- Support OS: Windows 98 / ME / 2000 / XP / Vista / Window7



#### Mindman utility

- Support Model: MA series distributed control system / MA series remote modules
- Support OS: Window98 / ME / 2000 / XP / Vista / Window 7



#### MA-152\*U driver / AMB128 driver

- Support Model: MA series industrial communication/ MA series memory card
- Support OS: Window98 / ME / 2000 / XP / Vista (32/64 bit) / Window 7(32/64 bit) / WinCE / Linux / Mac



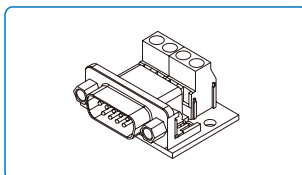
#### MA-1571U driver

- Support Model: MA series industrial communication
- Support OS: Window98 / ME / 2000 / XP / Vista (32/64 bit) / Window 7(32/64 bit) / WinCE / Linux / Mac / Window Server 2008 R2 / Android

### Accessories

#### ADP090401

- All type
- Adapter board

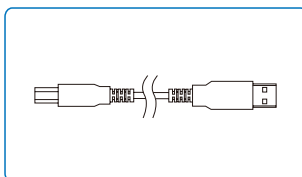


### Applicable model

MA-1188\*, MA-1189\*  
MA-1520, MA-1521,  
MA-10\*\*,  
MA-3016

#### USB1800

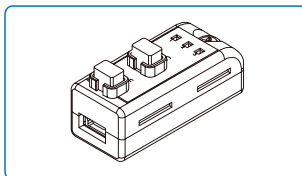
- MA series converter
- USB cable



MA-1520U, MA-1521U,  
MA-1571U

#### AMB128

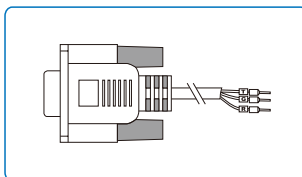
- MA series DCS series
- Memory card



MA-1188\*, MA-1189\*

#### DSCAB

- MA series DCS series
- Adapter cable



MA-1188\*, MA-1189\*  
MA-1520, MA-1521,  
MA-10\*\*,  
MA-3016