MBs-CM5H



Introduction

MBs-CM5H is a RS485 repeater module of MBs-PLC series. This module is designed for stand along operation and can work not only with the MBs-PLC but also other brands of controller. The feature of isolation between each ports protect this module from damaging when the voltage difference between the sub systems is high. This module can concentrates the multiple RS485 bus segments into one unify RS485 network. The RS485 network can only suit for bus structure topology, when there is a need to deploy the star topology then using this module is a right answer. While installation, the module can be mounted on DIN-Rail or securely be fastened by screw.

Specifications

Total Ports- 4 Ports

Maximum Speed- 1Mbps

Flow Control- Automaic

Interface Signals-

RS485interface-+, -, GND

Connector- Terminal block

Isolation Method- Transformer (Power) and optical (Signal)

RS485Terminator-

Built in, each port can be set individually.

Indicators -

5V PWR LED indicator

Active status LED indicators

Collision status LED indicators

External Power - 24V-15%/+20%. 2W

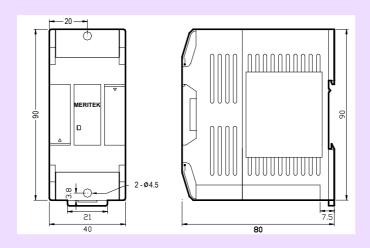
Power Protection- Reverse polarity protection

Operating Temperature- $0 \sim 60 \, ^{\circ}\text{C}$

Storage Temperature - $-20 \sim 80$ °C

Dimension- 40(W)x90(H)x80(D) mm

Dimensions



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Indicators

Indicator	Description		
	Power indicator. When apply the 24V power this LED will be		
POW	lighted.		
ACTIVE	There are four LEDs dedicated for the indication of bus activity		
	of all ports. Each LED corresponds to one port. When lit, means		
	the corresponding port is a active port, the message of other		
	ports will derive from the active port		
COLLISION	There are four LEDs dedicated for the indication of collision		
	status of all ports. Each LED corresponds to one port. When lit,		
	means the actual port signal of corresponding port is not		
	consistent with the signal that intended to drive.		

Jumper and DIP Switches

Terminator Setup

There are four DIP switch inside the module that can be used to control the engagement of the built in termination resistor.

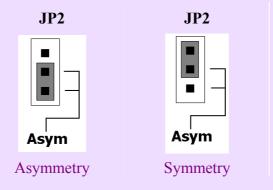
Port	Switch	With Termination	No termination
СН1	SW1	1,2 is ON	1,2 is OFF
СН2	SW2		
СН3	SW3		
СН4	SW4		

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Working mode setup

Symmetry mode- The function of each port is the same, any one port receives a message will put the message to other ports.

Asymmetry mode- When the port 1 get a message will put the message into port $2\sim4$, but when the port $2\sim4$ get a message will put the message only to port 1.



The default factory setting of MBs-CM5H is

Terminator- CH1~CH4 all installed

Working mode- Symmetry

For those applications that require the setting differ than the above default setting should make some modification according to the tables listed above.