APB Communication Module
Operation Guide

1. Introduction

1.1 Brief Description

This module is used for the interface sending APB remote signal. The combination of APB PLC and APB communication module can get networking function, which makes multiple APBs become a network with RS-485 bus, and have real-time monitoring on one HMI with MODBUS communication protocol. The user will enjoy more flexibility when designing automation solution.

1.2 Technical Parameters

a. Serieal data interface

- Baud rate: corresponds with sending baut rate;
- Data format: corresponds with sending data format;
- Type/RS-232/RS-485

b. Power supply

- Power supply: powered by APB main machine or APB expansion module;

c. Power consumption

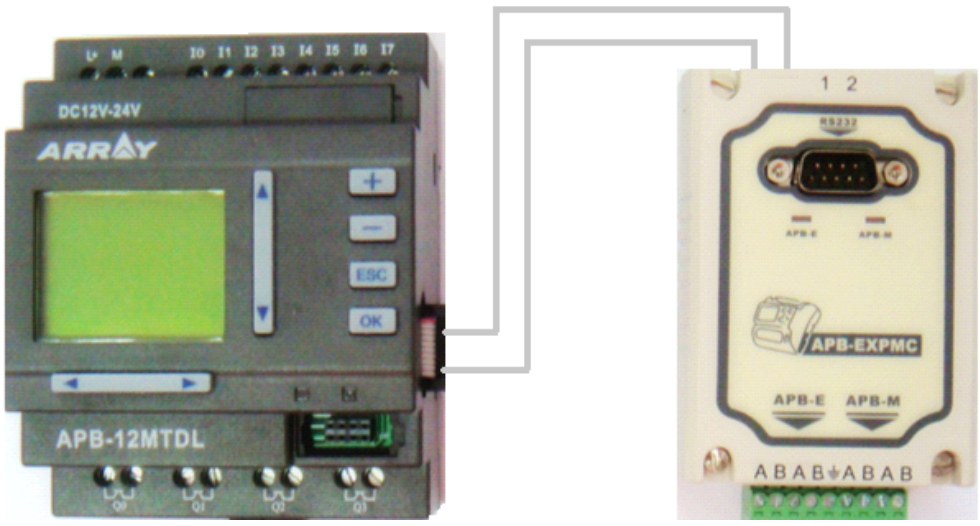
- Current:135mA/5VDC（Communication state）。

Other Parameters:

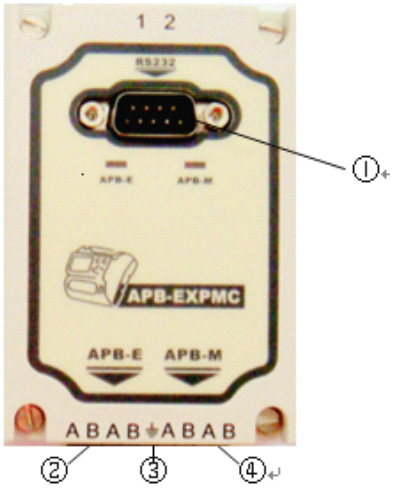
- Size：63.8mmx89.7mmx25.6mm
- Ambient temperature:-20℃～+60℃。
- Relative humidity: (50℃，30％～80％ no condensation)

2. Connections

2.1 Connecting with APB Main Machine



2.2 Pin Assignment



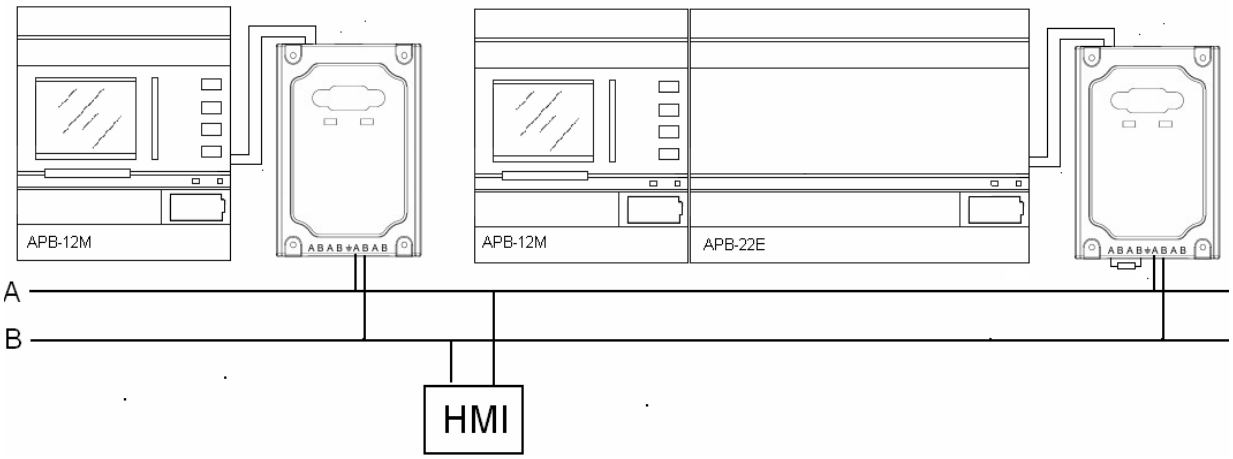
Pin assignment:

Pin	Signal Name	Description
1	RS232 interface	Used in 232 communication
2	A B	spare wiring terminal
3	GND	Ground
4	A B	Use A B(receiving/sending terminal) when it is connected with APB module

Note:

- **Please make sure A B connection is correct when RS485 interface is used.**

2.3 network connection



4. Indicators

APB-EXPMC has 2 indicators.

APB-E Flashing: Indicates APB main machine is sending communication data to expansion module;

APB-M Flashing: Indicates APB main machine is responsing the communication command of the host computer