





# **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 sendingdata format;
  - ✓ Type/RS-232/RS-485
- b. Power supply
  - Power supply: powered byAPB main machine or APB expansion module;
- c. Power consumption
  - ✓ Current:135mA/5VDC (Communication state) 。



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

#### 2. CONNECTIONS 2.1. CONNECTING WITH APB MAIN MACHINE



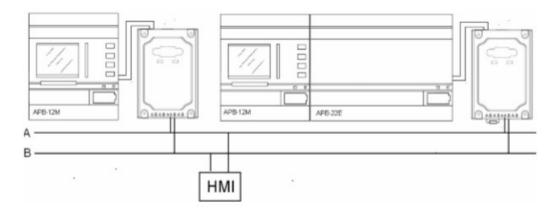
## 2.2. PIN ASIGNMENT

Pin	Signal name	Description
1	RS-232 Interface	Used in 232 communication
2	AB	Spare wiring terminal
3	GND	Ground
4	AB	Use A B(receiving/sending terminal) when it is connected withAPB module

### Note

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

# 2.3. NETWORK CONNECTION



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