

Brochure Micro-control

Sales expertise for your applications requirements



Digital/analog input and high-speed counting

The DC main machine provides 8 analog inputs ($I0\sim11/0-10$ VDC,A0 \sim A1/4-20mA) and 2 high-speed digital outputs at most (Q2 \sim Q3/10KHZ).

Small size and flexible extension

I/O can be extended to The max. 112DI, 62DO, 2AI, 2AO. And the user can realize the flexible application of the controller with the APB-EXPMC communication extension module.

Self-define menumulti-language switching

Both APB PLC and its programming software support many languages, such as Chinese, Japanese, English, German, French, and Russian.

PNP/NPN input

It can receives PNP/NPN sensor signals directly, No more time-consuming rewiring.

Date Retentivity

Retain the current data after power failure and resume operation at the break point, and ensure the equipments operate safely and reliably.

43 FBDs,320 blocks capacity

APB software integrates 10 basic function blocks and 33 special function blocks. Thus various control circuits can be constructed simply and conveniently.

Easy programming, simulation and monitoring

By the offline simulation and the online monitoring to modify the variable parameters to save cost and time with FBD programming.

Converting the summer/winter time

Reduce the required changes and maintenance.

SMS module and remote control

Fault alarm and remote monitoring through the SMS message, and it can read and modify I/O, register and DW status.

Password protection

Multiple level password protection, to increase the system security.





APB Series PLC

- CE approval
- Power failure protection
- Analog input and output
- High-speed counting input and output
- New function blocks as PWM, PTO, acceleration/deceleration single-phase pulse, SMS and analog calculation etc.
- SMS module
- Real-time clock
- Password protection
- Flexible extended function (1141, 640)
- 320 FBDs logic function blocks MODBUS protocol
- Small-sized multi-language displaying LCD panel

Product Models

Type	Power Supply	Input	Output
APB-12MRD(L)	DC12-24V	8 points DC (8 points AI, I4-I7 can be high- speed ports)	4 points relay output
APB-12MTD(L)	DC12-24V	8 points DC (8 points AI, I4-I7 can be high-speed ports)	4 points NPN transistor output Q2, Q3 can be high-speed ports
APB-12MGD(L)	DC12-24V	8 points DC (8 points AI, I4-I7 can be high-speed ports)	4 points PNP transistor output Q2, Q3 cam be high-speed ports
APB-12MRA(L)	AC100-240V	8 points AC input	4 points relay output
APB-22MRA(L)	AC100-240V	14 points AC input	8 points relay output
APB-22MRD(L)	DC12-24V	14 points DC input (the first 12 points can be AI, I4-I7 can be high-speed ports)	8 points relay output
APB-22MTD(L)	DC12-24V	14 points DC input (the first 12 points can be Al, I4-I7 can be high-speed ports)	8 points NPN transistor output Q2、Q3 can be high-speed ports
APB-22MGD(L)	DC12-24V	14 points DC input (the first 12 points can be Al, I4-I7 can be high-speed ports)	8 points PNP transistor output Q2、Q3 can be high-speed ports
APB-24MRDL	DC12-24V	2 points for current 4~20mA input, and 14 points for digital input (the first 12 points can be 0~10V analog inputs); I4-I7 can be high-speed ports	6 points relay output + 2 current 4~20mA outputs
APB-22ERA	AC100V-240V	14 points digital input	8 points relay output
APB-22ERD	DC12V-24V	14 points digital input	8 points relay output
APB-22ETD	DC12V-24V	14 points digital input	8 points NPN transistor output
APB-22EGD	DC12V-24V	14 points digital input	8 points NPN transistor output

Product Accessories

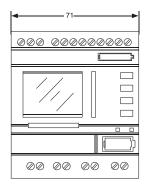
APB-232	Communication cable between APB with PC RS232
APB-DUSB	Communication cable between APB with PC USB
APB-EXPMC	APB communication extension module
APB-SMS	Send alarming information, query and set APB parameters
APB-ECB	Remotely connect the host with extension module (about 70cm)

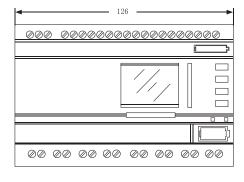


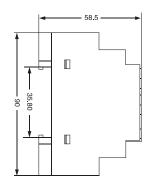
Technical Parameters

Item	Content	
Surge immunity	2kv(common mode), 1kv(differential mode), Level 3 (IEC61000-4-5)	
Electrostatic discharge (outer casing)	± 8kv(air discharge)/ ± 6kv(contact discharge), Level 3 (IEC61000-4-5)	
Ambient temperature	-10°C ~ +55°C	
Storage temperature	-40°C ~ +70°C	
Ambient humidity	5% ~ 95%RH	
Protection degree	IP20 (Non-waterproof)	
Installation	Fixing with M3 screws or Standard DIN rail mounting	
Dimensions (mm)	71*99*90 (12 points); 126*99*90 (22 points); 126*99*90(24 points)	
Programming language	FBD	
I/O	12 points/22 points/24 points/supporting 7 I/O extension modules	
Memory capacity	320 FBDs	
Filtering duration of input signal	It can be set to improve the stability of signals.	
Real-time clock	160h and a Li-ion battery can be placed when necessary	
Password protection	Multiple passwords protection	
High-speed operation	At most 4 high-speed inputs 10KHz, and 2 high-speed outputs 10KHz	
Analog operation	At most 12 voltage 0~10V and 2 current 4~20mA analog inputs, and 2 analog outputs	
Power failure protection	Yes	
Simulate monitoring	Yes	
Communication interface	TTL interface; besides, communication module supports 2*RS485 and 1*RS232 interfaces	
Baud rate	9600bps	
Communication protocol	MODBUS RTU	

Installation Dimensions







APB-12(mm)

APB-22(mm)