



# AutoBase Programmable Logic Controller

## AIC-PL17 Series

TD-AICPL17

### 1 AIC-PL17 Series Specifications

Feature	Notice	PL17-C	PL17-D	PL17-E	PL17-F
CPU	32bit-ARM Cortex-M4 120MHz	•	•	•	•
Flash	512Kbytes	•	•	•	•
SRAM	128Kbytes	•	•	•	•
DI 0~7	8 Digital Input	DC12~24V/4mA	•	•	•
DO 0~6	7 Digital Output(Relay)	DC10V~24V/2A AC220V/2A	•	•	•
AI 0~1	2 Analog Input	4~20mA	•	•	•
LOADER	COM	TX, RX, GND	•	•	•
*RS-232C	COM	TX, RX, GND	•	•	•
*RS-485	(RS-232C or RS-485)	TX+, TX-, FG	•	•	•
LAN	10/100MB Ethernet	RJ45		•	•

\*Only one of RS-232C and RS-485 can be selected and used.

### 2 Characteristics

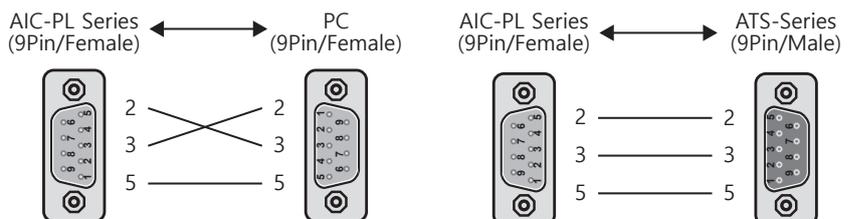
	Items
Security	Ensure secure communication with perfect encryption (built-in AES, ARIA encryption engine)
Functionality	Built in serial communication and Modbus TCP, industry standard communication protocol (Easy connection with SCADA, AutoBase Touch, PLC) You can write your own program using the ladder control logic tool. Users can verify the program created without AIC-PL Series. (Same operation simulator is provided) It provides external data interface in various ways such as RS-232C, RS-485 and LAN. Two RS-232C ports support console, communication and download functions (automatic communication recognition).
Convenience	Communication is possible only by connecting communication cable (automatic station recognition).
Reliability	Reliability test standards such as Surge 3kV, EFT / B 3kV, impulse Noise 3kV, and other vibration and temperature standards are in accordance with the PLC standards.

### 3 Software

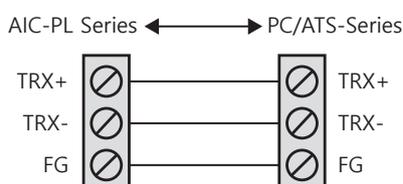
AIC\_Studio version 2.4.0 or later (<http://www.autobase.biz/Korean/autobaseplc/AIC-PL17.htm>)

### 4 Peripheral devices (Need a purchase)

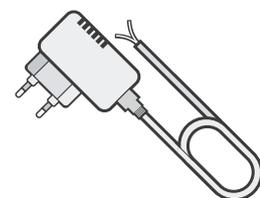
#### 1) RS-232C/LOADER Cable



#### 2) RS-485 Cable



#### 3) Power : DC12~24V Adapter



## 5 Communications

Item	Specification
RS-232C	Default setting : Modbus RTU / 115200, 0, NONE, 0
	AOB Auto, AOB ASCII, AOB Binary, Modbus RTU setting, Communication speed and parameters can be set
	Act as initial console, automatic conversion to communication data recognition
	If RS-232C is not connected, it will recognize automatically
RS-485	Default setting : Modbus RTU / 115200, 8, NONE, 0
	AOB Auto, AOB ASCII, AOB Binary, Modbus RTU setting, Communication speed and parameters can be set

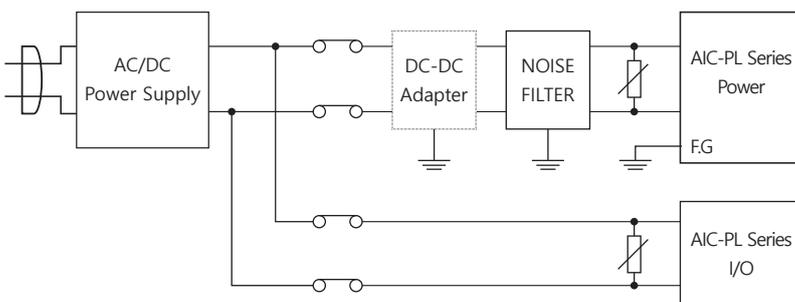
Item	Specification
LOADER	Fixed AOB Auto / 115200, 8, NONE, 0
	AIC_Studio performs controller setup and download via this port
	Act as initial console, automatic conversion to communication data recognition
LAN	Default setting : Modbus TCP / 192.168.0.100:502
	AOB Auto, AOB ASCII, AOB Binary, Modbus TCP setting, IP address and communication port can be set

## 6 I/O Board - Specifications

Item	Specification	
Digital inputs	Input count	8
	Isolation method	Photocoupler
	Input voltage/current	DC12~24V/4mA
	Voltage range	DC10.4~24.6V(Ripple rate 5%)
Digital output	Output count	7
	Isolation method	Relay
	Load voltage/current	DC24V/2A(Resistive load)
	Minimum voltage/current	AC220V/2A(COSΦ=1), 3A/COM
	Maximum voltage/current	DC5V/1mA
	Life	DC24V/1A, AC220/1A(COSΦ=0.7) More than 100,000 times

Item	Specification	
Analog input	Input count	2
	Kind	Current
Normal specifications	Input range	DC4~20mA
		DC0~20mA
	Resistance : 250Ω	
	Digital range	0~4095
	Temperature	0~55°C
	Keep temperature	-25~+70°C
	Humidity	5~95%RH, Dew-free conditions
	Keep humidity	5~95%RH, Dew-free conditions
	Power	DC12~24V
	Current	<20mA

## 7 Power Wiring



- 1 If the power source does not meet the rated voltage, connect the DC-DC adapter.
- 2 Connect to Noise-less power between line and ground. Connect to Insulated DC-DC adapter when there is a lot of noise.
- 3 AIC-PL Series power supply, I/O and other equipment system separate.
- 4 The grounding wire has a 3-type grounding (grounding resistance of 100 Ω or less) and a grounding wire of 2 mm<sup>2</sup> or more. However, if it malfunctions due to grounding, disconnect ground.

## 8 Quality Assurance and A/S

### 1 Scope of warranty

The warranty period for this product is one year from the date of purchase.

Warranty does not apply if you belong to the following items

- normal wear and tear
- if the product is opened or repaired by an unauthorized person
- if the product is abused
- if the product is exposed to humidity or heat
- if user doesn't follow user guidance

### 2 Request a warranty

If defects arise during the warranty period, you must contact the manufacturer or return the product to the manufacturer, along with a description of the defective product, to the address provided by the manufacturer. If the warranty claim is valid, the manufacturer will repair and return the product.

### 3 Limitation of liability

The manufacturer and supplier are not responsible for any malfunction or damage to the equipment, either directly or indirectly, and the total liability of the manufacturer and supplier is limited to the total amount paid for the product.

### 4 Legal Rights

If the warranty is limited, limitation of liability does not affect the statutory rights specified by national laws regarding the sale of products.

The warranty limit can not be transferred to another person. The Warranty Limitation is superseded by any other warranties express or implied, written or oral.



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