

IAP series Signal Channel AC Signal Transmitter

Features:

- >> Small size, standard SIP12 package
- >> Precision grade: 0.5
- >> 0-1Vrms (50 ~ 60Hz) AC signal input
- >> International standard signal output: 0-10mA /4-20mA/0-5V/0-10V
- >> External potentiometer and other components, can be zero and gain adjustment
- >> Can be test AC voltage and current by connecting the transformer
- >> Single power supply, isolation between power supply and signal
- >> UL94V-0 standard fire retardant package
- >> Anti electromagnetic interference and high frequency interference ability
- >> Industry wide temperature (-40~+85 Deg.C)


Product overview:

WAYJUN AC signal transmitter can convert the AC input signal into standard signal according to the proportion, 0-1Vrms input AC voltage signal; output 4-20mA DC current signal or 0-5VDC DC voltage signal. 2500VDC Isolation between the auxiliary power supply and the input/output signal, the products have been widely used in electric power, remote monitoring, instrumentation, medical equipment, industrial automation and other fields.

Product Listing:

IAP AC - P□ - V(A)□							
Input Signal		Power Supply		Output Signal			
AC Voltage	Code	Power	Code	Current	Code	Voltage	Code
0~1Vrms	AC	24VDC	P1	0-20ma	A3	0-5V	V1
		12VDC	P2	4-20ma	A4	0-10V	V2
		5VDC	P3	user-def.	A8	1-5V	V6
		15VDC	P4			user-def.	V8

Samples:
Part No.: IAP AC-P1-A4

(Input Signal:0-1VAC Power Supply:24V Output Signal:4-20mA)

Part No.: IAP AC-P2-V2

(Input Signal:0-1VAC Power Supply:12V Output Signal:0-10V)

Part No.: IAP AC-P1-V1

(Input Signal:0-1VAC Power Supply:24V Output Signal:0-5V)

Products Absolute Maximum Ratings:

Continuous isolation voltage: 2500VDC

Power supply voltage rang: $\pm 10\%$ Vin

Operating temperature: +85 °C

Storage temperature: +85 °C

Lead Temperature: +300 °C(10S)

Note: Exceeding the maximum ratings may cause irreparable damage

General Parameter:

- >> Accuracy ----- 0.5
- >> Power supply ----- DC5V,12V,15V,24V($\pm 10\%$)
- >> Power loss ----- if voltage output:0.2W(TYP.) ,0.5W(MAX),
if current output:0.5W(TYP.) ,0.75W(MAX)
- >> Response time ----- $\leq 400\text{mS}$
- >> Isolation ----- signal / auxiliary power supply
- >> Isolation voltage ----- 2500VDC, 1 minute, leakage current (1mA)
- >> Insulation resistance ----- $\geq 20\text{M}\Omega$
- >> Operating Temperature ----- -40 to +85°C
- >> Storage Temperature ----- -45 ~ +85°C
- >> Operating Humidity ----- 10 ~ 90% (no condensation)
- >> Storage Humidity ----- 10 ~ 95% (no condensation)

Application Parameter:

Input item	Input impedance	Input over load
0-1Vrms	$\geq 500\text{k}\Omega$	2.0 times rated: Continuous

Output item	Output over load	Response time
4-20mA	$\leq 350\Omega$ (if need 650Ω, please note)	$\leq 400\text{mS}$
0-20mA		
4-12-20mA		
0-5V		
0-10V		
1-5V		

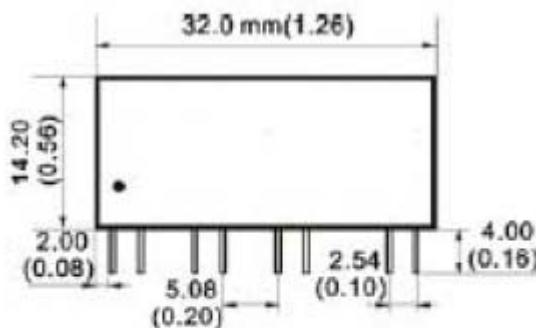
Footprint Description:
1>voltage signal output

PIN	Function	
1	Signal input	IN+
2	Signal input	GND
3	NO PIN	
4	Power supply	PW+
5	Power supply	PW-
6	NO PIN	
7	NO PIN	
8	Signal output	Vout-
9	Gain adjustment	G.adj
10	Gain adjustment	G.adj
11	Signal output	Vout+
12	NO PIN	

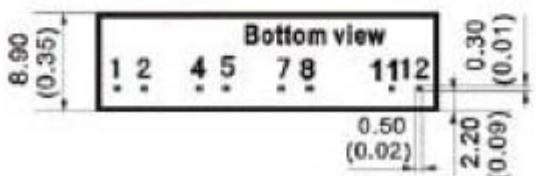
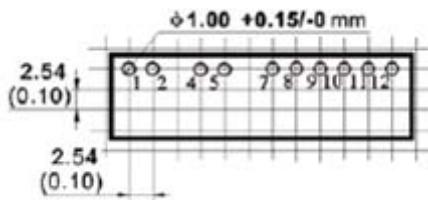
2>current signal output

PIN	Function	
1	Signal input	IN+
2	Signal input	GND
3	NO PIN	
4	Power supply	PW+
5	Power supply	PW-
6	NO PIN	
7	Signal output	Iout+
8	ZERO or NO PIN	
9	Gain adjustment	G.adj
10	Gain adjustment	G.adj
11	ZERO or NO PIN	
12	Signal output	Iout-

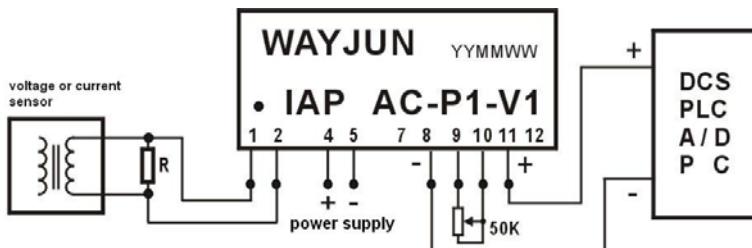
Mechanical Dimensions: (unit: mm)



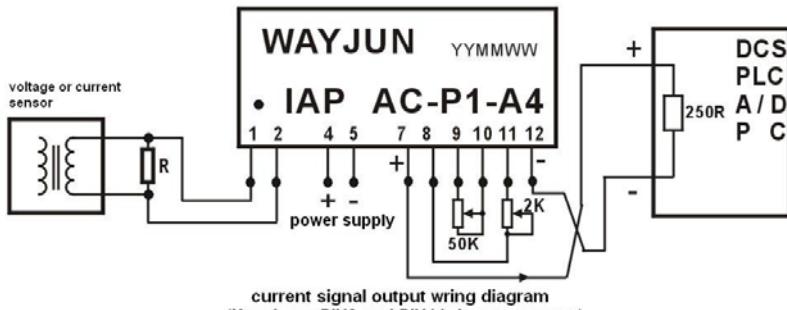
Printed Board



Application Diagram:



voltage signal output wiring diagram



current signal output wiring diagram
(if no have PIN8 and PIN11,do not connect)

Warranty

Two years (but violate operating rules and requirements to create damage, clients need pay maintenance costs)

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Brand

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* Specifications subject to change without notice