

JIC-C21 series

AC Current Transducer

1. Brief introduction

JIC-C21 current transducer uses CT principle to measure AC current. The output signal could be standard DC signals that can be accepted by electronic circuit e.g. PLC. The primary input current and the output signal is highly electric isolated. This kind of transducer has a compact size but with a $\Phi 32\text{mm}$ aperture hole. It can be used in Power Utility, Telecom, Oil & Gas, and New energy fields.



- ★ AC current measurement ★ Good overload capacity
- ★ Good linearity ★ Galvanic isolation between primary and secondary circuit ★ Low power consumption
- ★ Compact size ★ Standard RMS signal output

2. Order information (see right chart)

Nominal Current:
100 200 300 Arms

Nominal output:
O1:DC 4-20mA O2:DC 0-5V O3:DC 0-10V

Power supply:
P1: 24Vdc P7: 12Vdc P9:15Vdc

JIC-C21-xxxPxOx

Nominal Current:

100A
200A
300A
400A
500A
600A
800A
1000A

Power supply:
P1:24Vdc
P7:12Vdc
P9:15Vdc

Nominal output:

O1:DC 4-20mA
O2:DC 0-5V
O3:DC 0-10V

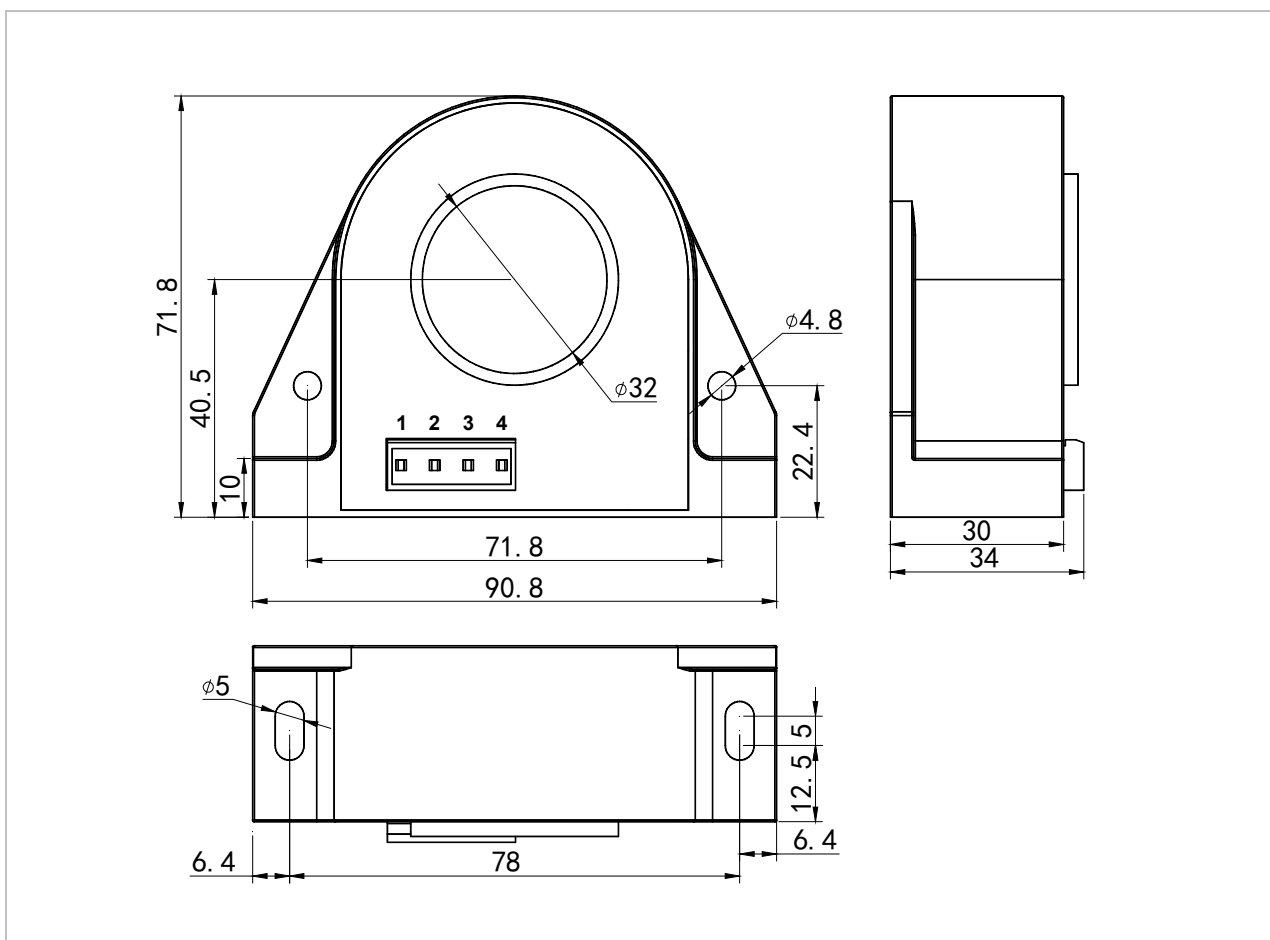
3. Eletrical data

l _{pn}	Primary nominal current (Arms)	100 200 300 400 500 600 800 1000
I _p	Primary Current, measuring range(Arms)	120% x I _{pn}
I _{oc}	Over load capacity	200% x I _{pn}
V _{sn} (for voltage output)	Secondary Voltage output	DC0-5V, DC0-10V etc
I _{sn} (for current output)	Secondary Current output	DC 4-20mA, DC 0-20mA etc
X	Accuracy (T _a =+25℃)	≤0.5%
EL	Linearity error	≤0.2%
V _c	Power supply voltage	P _n (±5%)
V _{ofs} /I _{ofs}	Offset voltage/Offset current (T _a =+25℃)	≤20mV(for voltage output)/ ≤80uA (for current output)
T _r	Response time	≤ 300mS
f	Frequency bandwidth	40-200HZ
I _c	Current consumption	20mA (for current output : + I _s)
R _L	Load resistance	>5KΩ(for voltage output)/ ≤450Ω(for current output)
V _d	Isolation test(50HZ,1min)	5KV

4. General data :

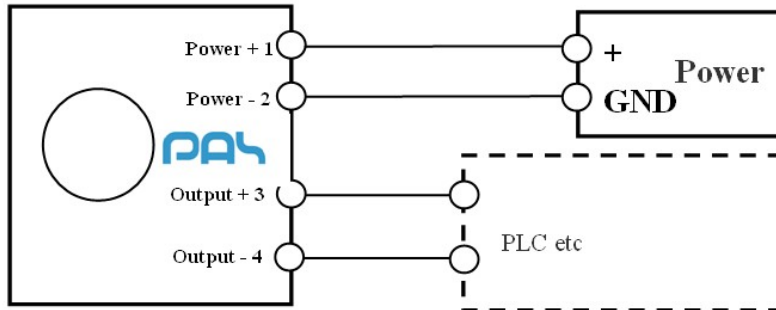
Ta	Ambient operating temperature	-25 - +70 °C
Ts	Ambient storage temperature	-45 - +85 °C
W	Mass	250g
St	Standards	IEC688:1992;EN61326
Ha	Ambient operating humidity	20-90% RH
	Case material	According to UL94-V0

5. Dimensions



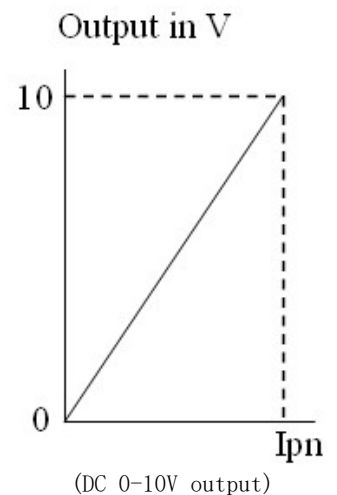
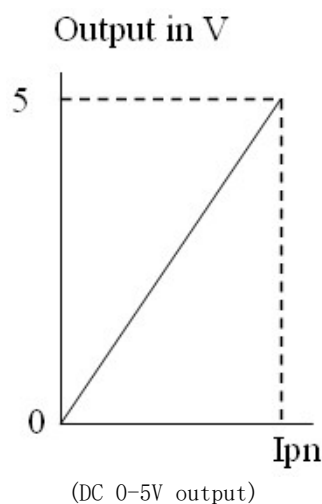
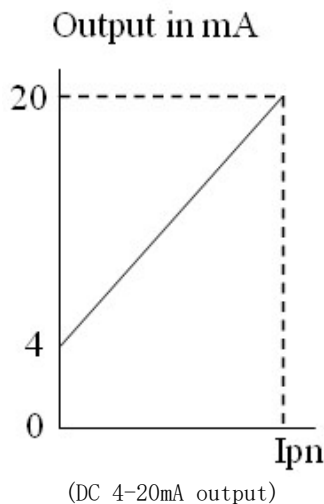
General tolerance	$\pm 1\text{mm}$	
Primary hole size	$\Phi 32\text{mm}$	
Fastening	Bottom: 2 x $\Phi 4.6\text{mm}$	Side: 2 x $\Phi 4.8\text{mm}$

6. Connection



Pin	Definition
1	Supply voltage+
2	Supply Gnd
3	Output signal +
4	Output signal -

7. Output figure



8. Safety items



1. Only qualified people can operate with such electrical products.
2. Wrong connection may destroy the products.
3. ESD protection is necessary, please follow the correct process.
4. Do not use in the environment with conductive dust and corrosive gas.
5. The Potentiometers on the product are used by PAS internal, the user can not calibrate.
6. Strong vibration and very high temperature may damage the products.



1. After the installation, the bus bar may be connected to the high voltage equipment, please do not touch the exposed parts of the transducers to avoid electric shock!



Note: 1.Passion technology company reserves the right to modify the datasheets at any time without previous notifications.
2.Any question about the datasheet, please contact our TCS.