

[Please read this manual carefully before using this type of product]

## ■Features

Usage: It is a device that transforms the current parameters in the power grid into linear DC analog signals through isolation.

Measurement: Three-phase AC current

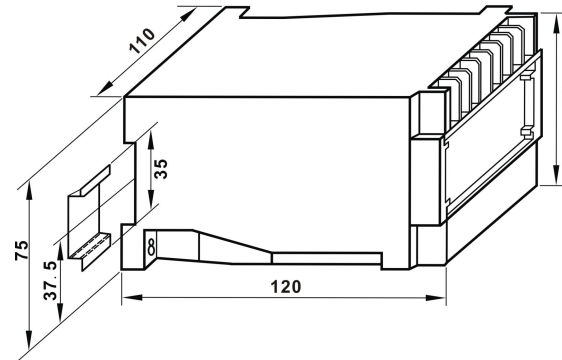
Accuracy: 0.2%, 0.5%

Output: Three channels of isolated analog signals such as 0~20mAdc, 4~20mAdc, 0~10Vdc, 0~5Vdc, etc.

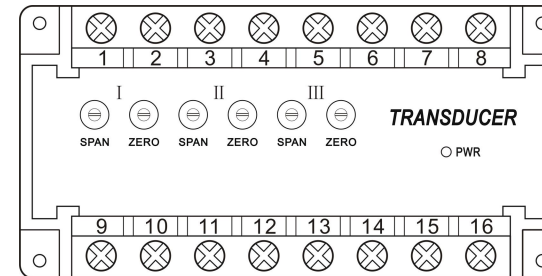
## ■Technical parameters

AC input	0.1A, 1A, 5A, etc.
Input load	CT of current transformer: $\leq 0.2VA$
Allow overload	Current $\times 2$ times the nominal value lasts; current $\times 10$ times the nominal value 10s
Accuracy	0.2%、0.5%
Response time	$\leq 400ms$
Output voltage	0~10Vdc, 0~5Vdc (load resistance = input voltage/10mAdc)
Output current	0~20mAdc ,4~20mAdc ( Load resistance=10Vdc/output current)
Output ripple	$\leq 0.5\%$ RO Peak-to-peak value
Temperature and humidity of working environment	0~50 °C /less than 80% relative humidity (non-condensing state)
Temperature and humidity of storage environment	-20~70°C/less than 70% relative humidity (non-condensing state)
Using electric	AC/DC 80V ~ 270V special specifications can be customized (DC12V, 24V, 48V)
Isolation	Input/output/power supply/shell
Power consumption	DC about 3W, AC about 4VA
Material of shell	ABS fireproof material
Weight	About 300 grams
Compressive strength	AC2kVrms/min
Insulation resistance	$> 100M\Omega$ at DC500V
Size of shape	120 (L) $\times$ 110 (W) $\times$ 75 (H) mm
Installation method	35mm standard rail or fixed on the cabinet

## ■ Size of the shape



## ■Correction fine-tuning



**PWR: Power Indicator**

**SPAN : Calibration full scale potentiometer**

**ZERO: Zero calibration potentiometer**

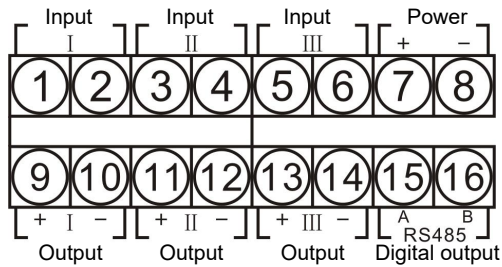
**! The calibration potentiometer is dedicated for meter calibration, non-professionals are forbidden to calibrate**

①Zero calibration: When the signal input is zero, adjust the "ZERO" potentiometer on the front panel to make the output signal low scale (such as 0 or 4mA).

② Full scale calibration: After adding the nominal signal to the signal input terminal, adjust the "SPAN" potentiometer on the panel to make the output full scale (such as 20mA).

③It is sometimes necessary to repeat zero calibration and full scale calibration several times.

## ■Terminal diagram



■Installation method: Fixedly installed on 35mm standard rail

## ■Installation precautions

1. Confirm whether the specifications indicated on the specification sticker are the same as the one ordered.
2. Whether the input current is within the specification range.
3. Pay attention to whether the working power supply is correct and connect the correct terminals; be sure to wire according to the transmitter wiring diagram.
4. The input of the transmitter is connected to the secondary output of CT.

If there is any discrepancy between the content in this instruction manual and the website, sample, etc., the instruction manual shall prevail.

## ■Product warranty instructions

○This manual is not a general manual for such products, and the content is subject to change without notice. The instructions attached to the product are consistent with the product specifications.

○If customers use this product normally, within one year from the date of purchase, the company will provide free warranty service.

# HDB-A3 HDB-A3 Type Three-phase Current Transmitter

## USERS MANUAL