

# Analogue Current Tranducer

EPAK-CM-CO-H 7760054300



## Safety instructions

### DANGER



- For safe installation and safe operation the following must be observed:
  - The device may only be installed by qualified personnel familiar with the national and international laws, directives and standards that apply to this region.
  - Until the device is installed, do not connect hazardous voltages to the device.
  - In applications where hazardous voltage is connected to in-/outputs of the device, sufficient spacing or isolation from wires, terminals and enclosure to surroundings (incl. neighbouring devices), must be ensured to maintain protection against electric shock.

### WARNING



- Prior to installation, commissioning and maintenance of the device, the related safety regulations, technical specifications and operating instructions must be observed.
- Avoid direct sunlight, dust, high temperatures, mechanical vibrations and shock as well as rain and heavy moisture.
- All devices can be used for Overvoltage Category II and Pollution Degree 2. The device is designed to be safe at least under an altitude up to 2000 m.
- The device is provided with field wiring terminals and shall be supplied from a power supply having double or reinforced insulation. A power switch should be easily accessible and close to the device. The power switch shall be marked as the disconnecting unit for the device.
- Year of manufacture can be taken from the first two digits in the serial number.
- When disconnected, the device may be cleaned with a cloth moistened with distilled water.

### CAUTION



- Appropriate safety measures against electrostatic discharge (ESD) are be considered when handling the devices.

## Introduction

The module converts 0~1/5A AC/DC current to 4~20mA. The current range can be divided into 2 individual ranges. Power is supplied via the individual 24V DC power supply. The power supply, input and output are galvanically isolated between each other.

Weidmüller Interface GmbH Klingenbergstr.16  
32758 Detmold  
Germany

Weidmüller Interface (Shanghai) Co.,Ltd.  
25F, BM Intercontinental Business Center, 100 Yutong Road, Shanghai,  
China,200070  
Phone:+86 21 2219-5008  
Fax:+86 21 2219-5009  
www.weidmueller.com.cn

## Specification

Channel: 1

Input:

Input signal: DC, AC: Sinus signals  
Input range:  $I_1$ : 0~5AAC/DC ( $I_{N1}$ :5A)  
 $I_2$ : 0~1AAC/DC ( $I_{N2}$ :1A)  
Input frequency:DC, AC: 40~60Hz

Output:

Output signal: 4~20mA  
Max output signal: 22mA  
Alarm output:22mA,over range/Wrong Input type  
Output load:  $\leq 500\Omega$   
Transmission accuracy: 0. 5% of  $I_N$   
Step response time:  $\leq 300\text{ms}$   
Temperature coefficient: < 250ppm/K

Power supply:

Supply voltage:18~30VDC  
Current consumption: <100mA @ 24VDC with full load  
Power protection: Inverse protect

Insulation Coordination:

Standards:EN50178

EMC standards: IEC61000-6-2,IEC61000-6-4

Rated voltage: 300VAC

Impulse withstand voltage:

input-output/supply:4000V(1.2/50  $\mu$  s)  
output-supply:800V(1.2/50  $\mu$  s)

Isolation voltage:

input-output/supply:2.2kVAC, 1min, 50Hz  
output-supply:500VAC, 1min, 50Hz

Overvoltage category:II

Pollution degree:2

General Data:

Configuration: DIP switch

Operating temperature: -20 ~ +60°C

Storage temperature: -40 ~ +85°C

Humidity: 5 ~ 85%, Tu=40°C, no condensation

Indicator:

LED1: Green, power on  
LED2: Red, alarm(ON:Input: $\geq 105\% * I_N$ ; Flash:Wrong input type)

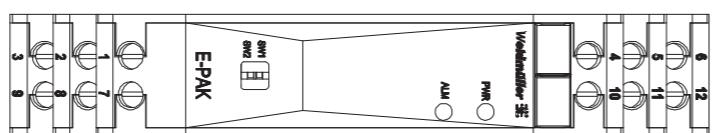
Approval: CE

## Settings:

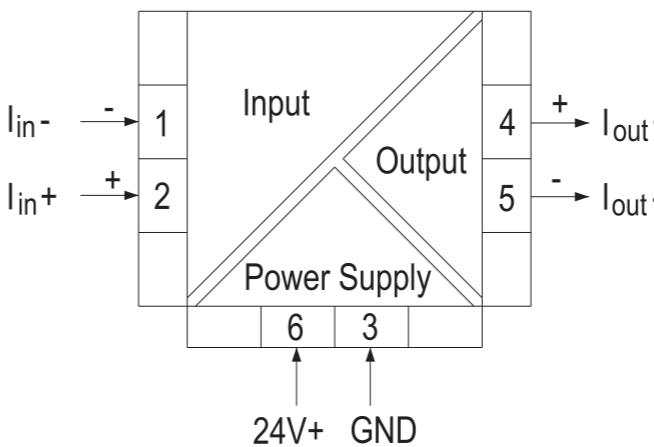
Range	SW1	SW2
0~5AAC	OFF	OFF
0~1AAC	ON	OFF
0~5ADC	OFF	ON
0~1ADC	ON	ON

\* The default factory Settings : SW1 OFF, SW2 OFF

\* Warning: Please disconnect the power supply of the module and input , when you configure it.

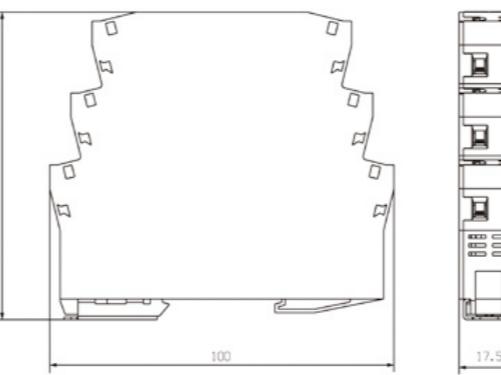


## Wiring

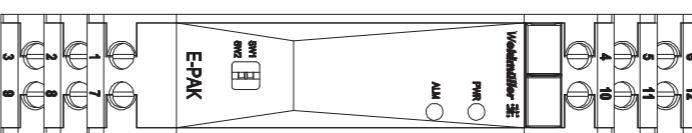


## Dimensions

HeightXLengthXWidth : 100X89X17.5(mm)

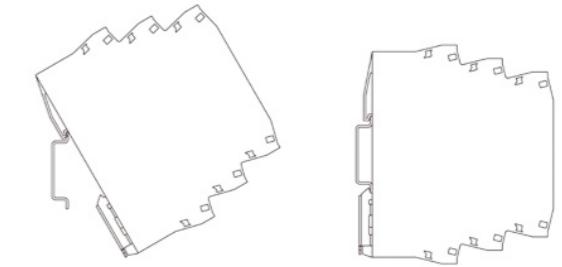


## Front cover and terminal definition



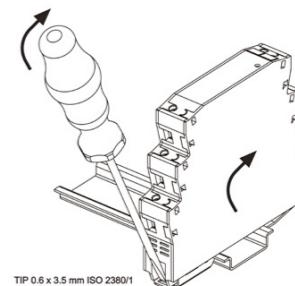
## Installation

The product is designed to be mounted onto a TS 35 DIN rail. It clips onto the rail via a spring-loaded mounting foot and can be removed via a spring release on the edge of the product near the mounting rail.



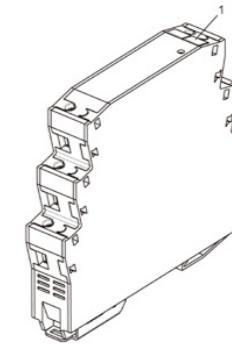
## Uninstallation

Please refer to the following picture when try to uninstall the isolator from the Din rail. Insert the screw driver into the hold of the house feet and turn the screw drive to take off the isolator.



## Marker

A device marker is located below the upper set of terminals for costumer identification.



## Maintenance

- Before powering the isolator, make sure the models type is correct according to the design and the application environmental conditions.
- Please choose the power supply with short circuit protection function.
- After the electronic products have been powered for more than fifteen minutes, the temperature of them should be stable.
- It is strictly prohibited to test the insulation capability between any two terminals of the product by a mega-ohmmeter. All of the connecting wires of the isolator must be disconnected, before testing the Insulation of the system, otherwise internal components will be destroyed.
- Each product has been tested strictly and the quality is controlled rigidly. If you have any questions regarding this product, contact the nearest distributor or our company technical support hotline directly for assistance.
- In 12 months from delivery date, if the product works improperly in the process of normal usage, we will repair or replace it without charge.