HDC-10000HA1 Series Hall Current Sensor

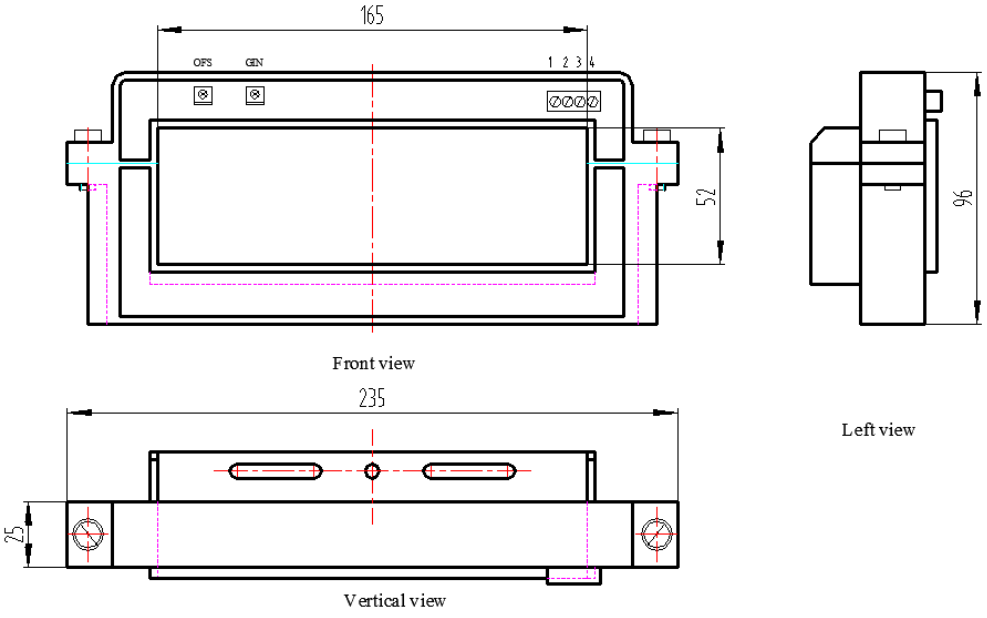
Introduction

HDC-10000HA1 Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

△Electrical Parameters (Ta＝25℃)

Type		HDC-2000HA1	HDC-3000HA1	HDC-5000HA1	HDC-10000HA1
Parameters	Symbols				
Nominal measuring current	I_{PN}	2000A	3000A	5000A	10000A
Linear range	I_P	0~±3000A	0~±4500A	0~±7500A	0~±15000A
Nominal output voltage	V_{SN}	±5V±0.05V(RL=10KΩ)			
Zero offset voltage	Vo	≤±0.03V(I_{PN}=0)			
Temperature drift of bridge offset	V_{OT}	≤±1mV/℃			
Linear error	ξ_L	±1%			
Supply voltage	Vc	±15V±5%			
Isolation voltage	V_d	5.0KV AC with 50 or 60Hz/1min			
Power dissipation current	I_C	±30mA			
Power dissipation current	Ta	-25℃~+85℃			
Frequency bandwidth	Ts	-40℃~+90℃			

△Dimensions：(mm)



Front view

Left view

Vertical view

Features:

◆Use open-loop current transducer based on Hall effect

◆ Adopt UL94V-0-recognized insulated casing

◆Excellent linearity

◆Punching way has no insertion loss

Applications：

◆Communication power supply

◆Uninterruptible power supply (UPS)

◆Chopper

◆Electrochemistry

◆Rectification

◆Power monitoring

Instructions for Use：

◆Connect the wire of transducer in correct way as required.

◆Inputting measured current from punched core of transducer, the in-phase voltage signal can be obtained from output end by sampling.

Connection and adjustment：

◆1：0V

◆2：Output

◆3：-Vc（-15V）

◆4：+Vc（+15V）

◆OFS：Offset

◆GIN：Gain