HDC-1500HAT Series Hall Current Sensor

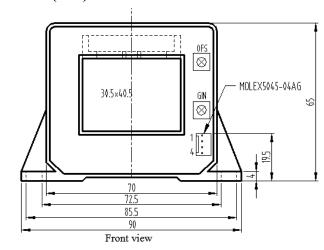
Introduction

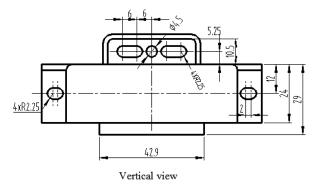
HDC-1500HAT Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

△Electrical Parameters (Ta=25°C)

Туре		HDC-500HAT	HDC-1000HAT	HDC-1500HAT
Parameters	Symbols			
Nominal measuring current	I_{PN}	500A	1000A	1500A
Linear range	I_P	0~±1500A	0~±2500A	0~±2500A
Nominal output voltage	V_{SN}	$\pm 4V\pm 0.04V(R_L=10K\Omega)$		
Zero offset voltage	Vo	$\leq \pm 0.03 \text{V}(I_{PN}=0)$		
Temperature drift of bridge offset	V _{OT}	±1mV/°C		
Linear error	$\xi_{ m L}$	±1%		
Response time	Tr	≤5 μ S		
Supply voltage	Vc	±15V±5%		
Isolation voltage	V_d	3.0KV/50 or 60Hz/1min		
Power dissipation current	I_{C}	±20mA		
Frequency bandwidth	f	DC~ 50KH _Z (-3dB)		
Operating temperature	Та	-25°C~+85°C		
Storage temperature	Ts	-40℃~+90℃		

\triangle Dimensions: (mm)







Features:

- ◆ Use open-loop current transducer based on Hall effect
- ◆Pass UL certification (S.N.: E466588)
- ◆ Pass CE certification (S.N.: A001E130424042E)
- ◆Excellent linearity
- ◆Low power consumption
- ◆High immunity against external disturbance
- ◆Punching way has no insertion loss

Applications

- ◆ AC variable-frequency speed control system and servo motor
- ◆Uninterruptible power supply (UPS)
- ◆ Switched-mode power supply
- ◆Battery supply
- ◆ Power supply for electric welding machine
- ◆Communication power supply

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: +Vc (+15V)
- **♦**2: -Vc (-15V)
- ♦3: Output
- **♦**4: 0V
- ♦OFS: Offset
- ♦GIN: Gain