

ATO-CUS-DC20000 Series Data sheet



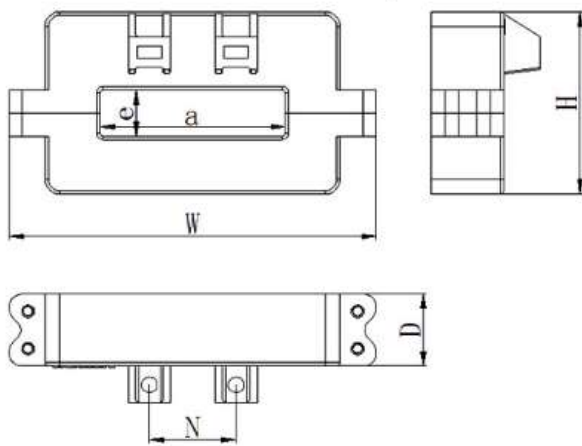
Specification:

Model	ATO-AHKC-KAA	ATO-AHKC-HBAA
Shipping weight	1kg	
Hole size *	64*16mm	132*52mm
Measuring range of input current *	DC 0-400A ~ 0-2000A	DC 0-2000A ~ 0-20000A
Output signal	DC 4-20mA	
Zero offset current	±0.05mA	
Offset current drift	±0.04mA/°C	
Linearity	≤0.2%FS	
Power supply *	DC 24V±10% or DC 12V±10%	
Accuracy	1.0%F.S.	
Response time	≤1ms	
Withstand voltage	AC 2500V (between input, output and power supply)	
Work temperature	-25~+70°C	
Storage temperature	-40~+85°C	
Humidity	≤95%RH (no dew formation, no corrosive gas)	
Elevation	≤3500m	
Measuring method	Split-core type	
Installation	Screw fixation	

Tips: 5 attentions for AC/DC current sensor

1. The current sensor must properly select different measuring range based on the rated effective value of the current under test. The long time excess of the rated current will damage the last stage power amplifier tube (refer to the magnetic compensation current sensor). In general, the time of duration of double overload current must not exceed 1 minute.
2. AC/DC current sensor with insulation voltage resistance of 3KV can work for a long time in 1KV and below AC systems and 1.5KV and below DC systems, current sensor with 6KV can work for a long time in the 2KV and below AC systems and 2.5KV and below DC systems, be careful not to use under overvoltage.
3. When applying high-current DC system, it is worth noting for the core produces a larger residual magnetism which caused by the power supply open circuit or fault. Residual magnetism affects accuracy. The method of demagnetization is to connect an alternating current and gradually reduce the value of the original current without connecting a power supply.
4. The current sensor's ability to resist external magnetic field is: The distance of two 2000A current sensors is 5~10cm, the current value is more than twice original current, the resulting magnetic field interference can be resisted. When the three-phase large current sensor is wiring, the interphase distance should be greater than 5~10cm.
5. The primary coil temperature must not exceed 85 °C, which is determined by the characteristics of ABS Engineering Plastics. High-temperature plastic for the shell can be customized.

400A to 20000A DC current sensor dimensional diagram:



Model	Dimension (mm)					
	W	H	D	a	e	N (Mounting)
ATO-AHKC-KAA	127	63	25	64	16	30
ATO-AHKC-HBAA	204	111.5	29	132	52	48*2

400A to 20000A DC current sensor wiring diagram:

